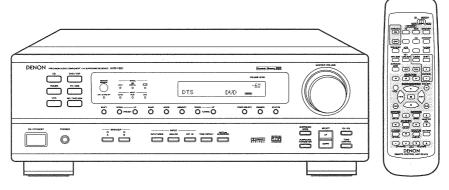
DENON

SERVICE MANUAL MODEL AVR-1601/681

AV SURROUND RECEIVER



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Some illustrations using in this service manual are slightly different from the actual set.

NIPPON COLUMBIA CO., LTD.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 460 kohms, the unit is defective.

SPECIFICATIONS

Audio Section

Power Amplifier

Rated output: Front: 60W+60W $(8\Omega/\text{ohms}, 20\text{Hz}\sim20\text{kHz} \text{ with } 0.08\% \text{ T.H.D.})$

90W+90W (6Ω/ohms, 1kHz with 0.7% T.H.D) (U.S.A., Canada & Europe Models)

(6Ω/ohms, EIAJ) (Asia Model) 100W+100W

Center: 60W (8Ω/ohms, 20Hz~20kHz with 0.08% T.H.D.)

 $(6\Omega/\text{ohms}, 1\text{kHz} \text{ with } 0.7\% \text{ T.H.D.})$ (U.S.A., Canada & Europe Models) 90W

100W $(6\Omega/\text{ohms}, EIAJ)$ (Asia Model) Surround: 60W+60W (8Ω/ohms, 20Hz~20kHz with 0.08% T.H.D)

90W+90W (6Ω/ohms, 1kHz with 0.7% T.H.D) (U.S.A., Canada & Europe Models)

520kHz~1710kHz

522kHz~1611kHz

 $18\mu V$

100W+100W $(6\Omega/\text{ohms,EIAJ})$ (Asia Model)

Output terminals:

Front:

A or B $\dot{6}$ to 16Ω /ohms A+B 12 to 16Ω/ohms

Center/Surround: 6 to 16Ω/ohms

Analog

LINE input - PRE OUT

Input sensitivity/input impedance: 200mV/47kΩ/kohms

Frequency response: S/N ratio:

10Hz~100kHz: +1, -3dB (TONE DEFEAT ON) 98dB (IHF-A weighted)(TONE DEFEAT ON)

Video Section

Standard video jacks

Input/output level and impedance: $1Vp-p,75\Omega/ohms$ Frequency response: 5Hz~10MHz --- +1, -3dB

S-video jacks (U.S.A., Canada & Asia Models)

Input/output level and impedance: Y(brightness)signal — 1Vp-p, 75Ω/ohms

C(color)signal — 0.286Vp-p, 75Ω/ohms

Frequency response: 5Hz~10MHz: --- +1, -3dB

Tuner section

Receiving range: [FM] (note: μV at 75 Ω /ohms, 0dBf =1×10⁻¹⁵W) [AM]

U.S.A., Canada &

Asia (for Multiple voltage) Models: 87.50MHz~107.90Mhz Europe & Asia (for China) Models: 87.50MHz~108.00Mhz 1.0µV (11.2dBf)

Usable sensitivity:

1.6µV (15.3dBf) 50 dB quieting sensitivity: MONO STEREO 23µV (38.5dBf)

80dB (IHF-A weighted) S/N ratio: MONO STEREO 75dB (IHF-A weighted)

Total harmonic distortion: MONO 0.15% (1kHz)

STEREO 0.3% (1kHz)

General

Power supply:

U.S.A., Canada Models AC120V.60Hz Europe Model AC230V,50Hz Asia(for Multiple voltage)Model AC115/230V,50/60Hz Asia(for China)Model AC220V,50Hz

Power consumption:

200W

Maximum external dimensions:

434 (W) × 147 (H) × 417 (D) mm (17-3/32" × 5-25/32" × 16-7/16")

Mass: 9.5kg (20 lbs 15.1 oz)

Remote control unit (RC-875)

Batteries: R6P/AA Type (two batteries)

External dimensions: 54 (W) \times 172 (H) \times 27.2 (D) mm (2-1/8" \times 6-49/642" \times 1-5/64")

Mass: 100g (Approx. 6 oz) (including batteries)

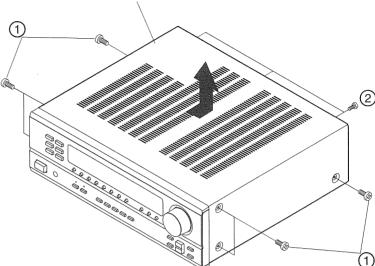
^{*} For purposes of improvement, specifications and design are subject to change without notice.

DISASSEMBLY

(Follow the procedure below in reverse order when reassembling)

Top Cover

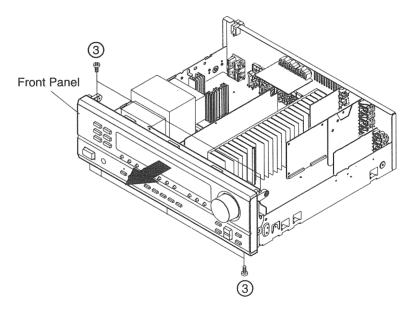
Remove 6 screws (1) and 3 screws (2), detach the Top Cover in the arrow direction.



Top Cover

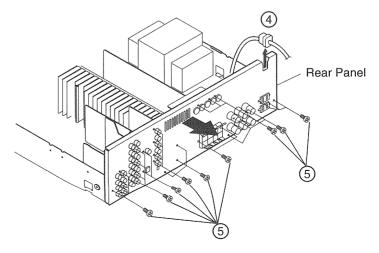
Front Panel

- 1. Remove 6 screws (3).
- 2. Detach the Front Panel in the arrow direction.



Rear Panel

- Remove cord bushing 4 from the Rear Panel.
 Remove 28 screw 5.
- 3. Detach the Rear Panel in the arrow direction.



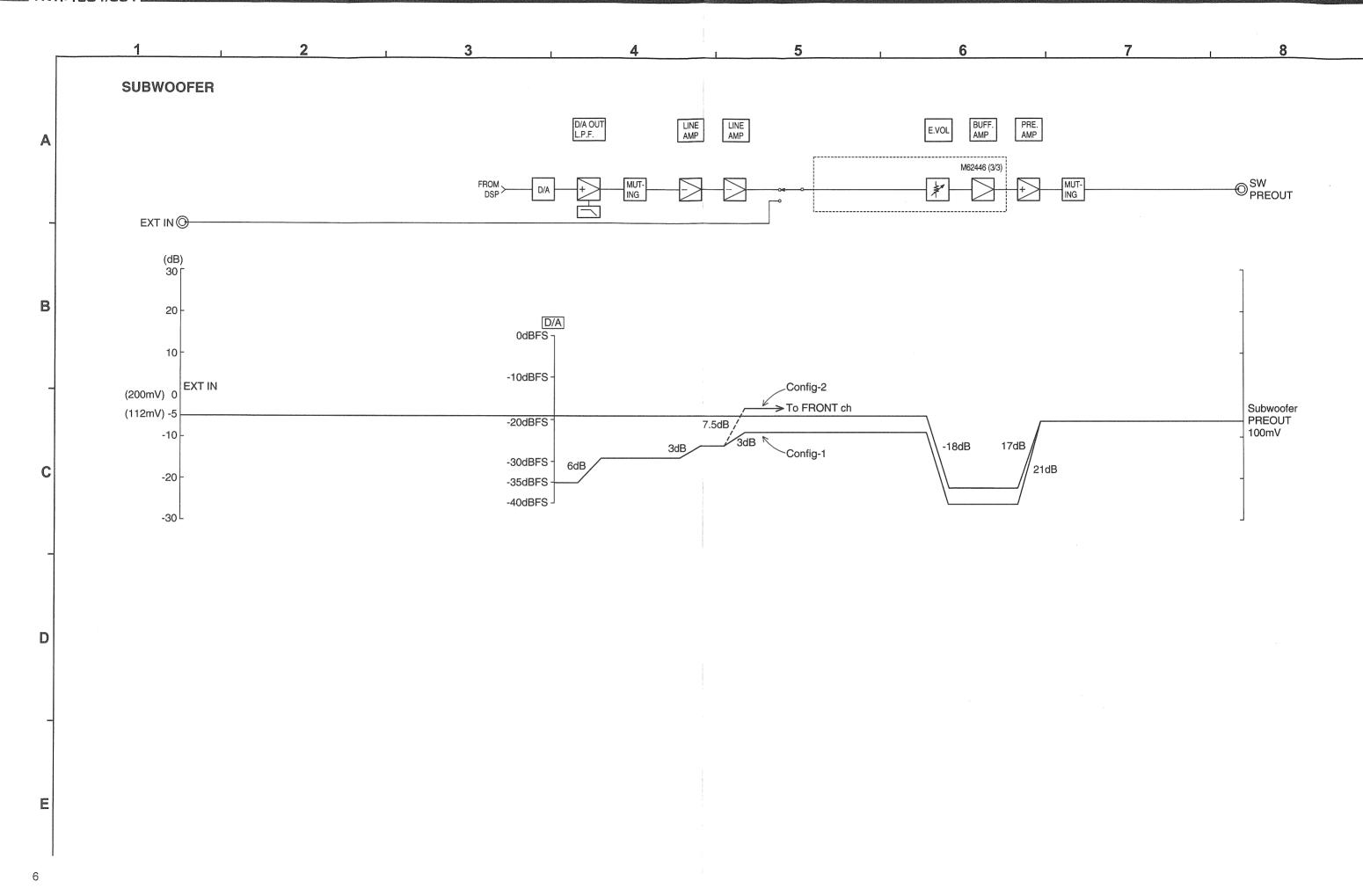
SW3 SW4

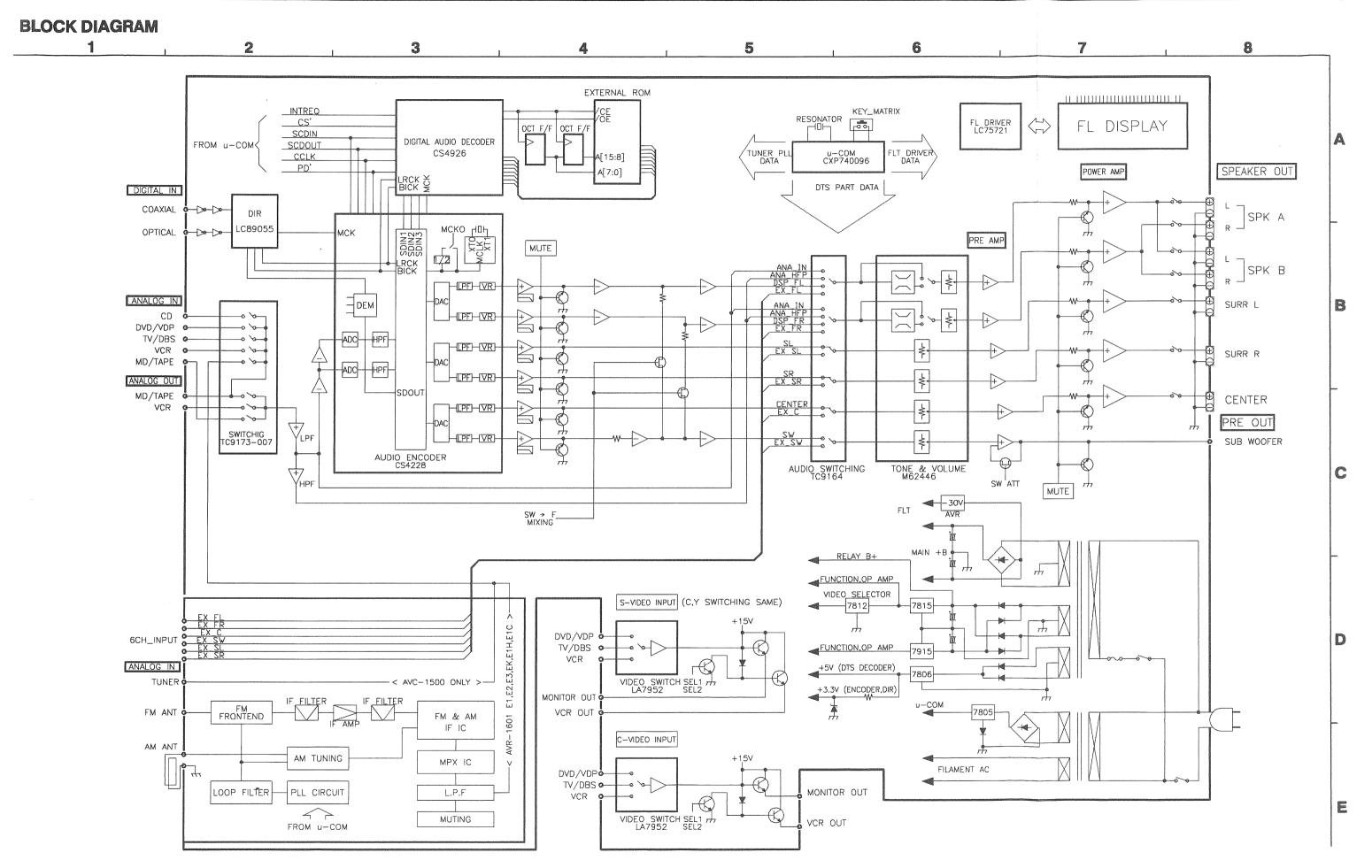
SW1

SW5 SW6

-30dBFS

-20 L



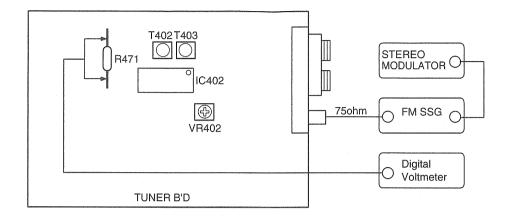


AVR-1601/681

ADJUSTMENT

Tuner Section CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

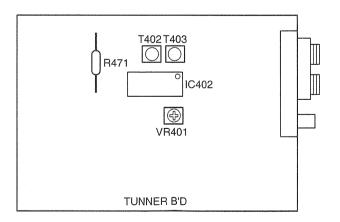
● FM



FM ALIGNMENT

	Alignment	Tuning	Input				Output		Adjustment		
Step	Item	Frequency Setting	Туре	Frequency	Input Level	Modulation	Coupling	Туре	Connect to	Points	Adjust to
1	Center Adjustment	98.1MHz (98.0MHz)	FM SSG	98.1MHz	60dBμ	Mono 1kHz 100%	Antenna Terminal	Digital Voltmeter	R471	T402	± 50mV
2	Distortion	98.1MHz (98.0MHz)	FM SSG	98.1MHz	60dBμ	Mono 1kHz 100%	Antenna Terminal	Distortion Meter	Output Terminal (L)	T403	Minimum Distortion
3	Repeat Steps 1 and 2										
4	Signal Level	98.1MHz (98.0MHz)	FM SSG	98.1MHz	20dBμ	OFF	Antenna Terminal		JNED" on isplay	VR402	20 ⁺¹⁴ ₋₁₀ dB

AM



AM ALIGNMENT

MARKET	Step	Alignment	Eroguanov	loout	Output		Adjustment		Domorto	
dosecostos	Steh	Item	Frequency	Input	Type	Connect to	Points	Adjust to	Remarks	
	1	Signal Level	999 (1000) kHz	AM SSG			VR401	Light "TUNED" on FL Display	SSG OUTPUT 74dBμ (EMF)	

8

Audio Section

Idling Current

Required measurement equipment : DC Voltmeter

Preparation

- (1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room tempereture $15 \,^{\circ}\text{C} \sim 30 \,^{\circ}\text{C}$ (59 °F ~ 86 °F).
- (2) Presetting
 - POWER (Power sourse switch)

 \rightarrow OFF

SPEAKER (Speaker terminal)

→ No load (Do not connect speaker, dummy resistor, etc.)

Adjustment

- (1) Remove top cover and set VR101, VR102, VR103, VR104, VR105 on Amp. Unit at full counterclockwise () position.
- (2) Connect DC Voltmeter to test points (FRONT-Lch: TP101, FRONT-Rch: TP102, CENTER ch: TP103, SURROUND-Lch: TP104, SURROUND-Rch: TP105).
- (3) Connect power cord to AC Line, and turn power switch "ON".

(4) Presetting.

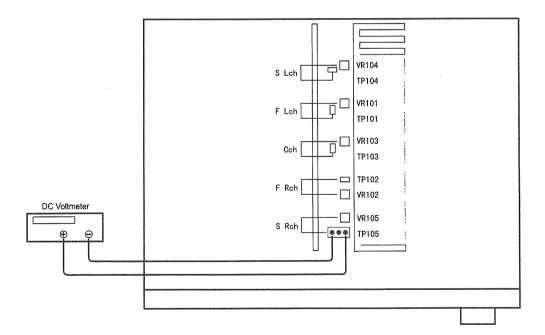
MASTER VOLUME: "---" counterclockwise (min.)

MODE

: 5CH STEREO

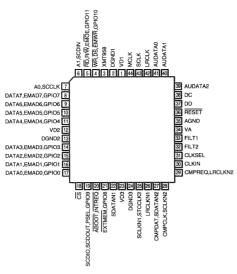
FUNCTION : CD

- (5) Within 2 minutes after the power on, turn VR101 clockwise () to adjust the TEST POINT voltage to 1.5 mV ±0.5 mV DC.
- (6) After 10 minutes from the preset above, turn VR101 to set the voltage to 2 mV ±0.5 mV DC.
- (7) Adjust the Variable Resistors of other channels in the same way.



SEMICONDUCTORS

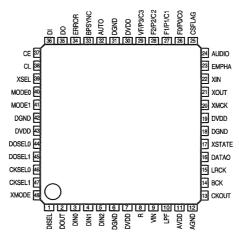
● ICs CS492604-CLR (AU: IC812)



CS492604-CLR Terminal Function

Pin No.	Pin Name	Function
1	VD1	Digital positive supply
2	DGND1	Digital supply ground
3	XMT958	SPDIF transmitter output
4	WR, DS, EMWR, GPIO10	Host write strobe or host data strobe or external memory write enable or general purpose input & output number 10
5	RD, R/W, EMOE, GPIO11	Host parallel output enable or host parallel R/W or external memory output enable or general purpose input & output number1
6	A1, SCDIN	Host address bit one or SPI serial control data input
7	A0, SCCLK	Host parallel address bit zero or serial control port clock
8	DATA7, EMAD7, GPIO7	
9	DATA6, EMAD6, GPIO6	
10	DATA5, EMAD5, GPIO5	
11	DATA4, EMAD4, GPIO4	
12	VD2	Digital positive supply
13	DGND2	Digital supply ground
14	DATA3, EMAD3, GPIO3	
15	DATA2, EMAD2, GPIO2	
16	DATA1, EMAD1, GPIO1	
17	DATA0, EMAD0, GPIO0	
18	CS	Host parallel chip select, host serial SPI chip select
19	SCDIO, SCDOUT, PSEL, GPIO9	Serial control port data input and output, parallel port type select
20	INTREQ, ABOOT	Control port interrupt request, automatic boot enable
21	EXTMEM, GPIO8	External memory chip select or general purpose input & output number 8
22	SDATAN1	PCM audio data input number one
23	VD3	Digital positive supply
24	DGND3	Digital supply ground
25	SCLKN1, STCCLK2	PCM audio input bit clock
26	LRCLKN1	PCM audio input sample rate clock
27	CMPDAT, SDATAN2	PCM audio data input number two
28	CMPCLK, SCLKN2	PCM audio input bit clock
29	CMPREQ, LRCLKN2	PCM audio input sample rate clock
30	CLKIN	Master clock input
31	CLKSEL	DSP clock select
32	FILT2	Phase locked loop filter
33	FILT1	Phase locked loop filter
34	VA	Analog positive supply
35	AGND	Analog supply ground
36	RESET	Master reset input
37	DD	Reserved
38	DC	Reserved
39	AUDATA2	Digital audio output 2
40	AUDATA1	Digital audio output 1
41	AUDATA0	Digital audio output 0
42	LRCLK	Audio output sample rate clock
43	SCLK	Audio output bit clock
44	MCLK	Audio master clock

LC89055W (IC810)

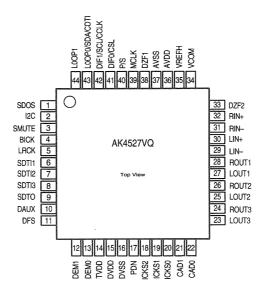


LC89055W Terminal Function

Pin No.	Pin Name	I/O	Function
1	DISEL		Data input terminal (select input pin of DIN0, DIN1)
2	DOUT	0	Input bi-phase data through output terminal
3	DIN0		Amp built-in coaxial/optical input correspond data input terminal
4	DIN1		Amp built-in coaxial/optical input correspond data input terminal
5	DIN2		Optical input correspond data input terminal
6	DGND		Digital GND
7	DVDD		Digital power supply
8	R	\top	VCO gain control input terminal
9	VIN	11	VCO free-run frequency setting input terminal
10	LPF	0	PLL loop filter setting terminal
11	AVDD		Analog power supply
12	AGND	\neg	Analog GND
13	CKOUT	0	Clock output terminal (256fs, 384fs, 512fs, X'tal osc., VCO free-run osc.)
	BCK	1 0	64fs clock output terminal
	LRCK	0	fs clock output terminal (L: Rch, H: Lch, I ² S: Reverse)
	DATAO	0	Data output terminal
	XSTATE	1 6	Input data detecting result output terminal
	DGND	+	Digital GND
	DVDD		— М
	XMCK	+	Digital power supply
			X'tal osc. clock output terminal (24.576MHz or 12.288MHz)
	XOUT XIN		X'tal osc. connection output terminal
			X'tal osc. connection input terminal, external signal input possible (24.576MHz or 12.288MHz)
	EMPHA	0	Emphasis information output terminal of channel status
24	AUDIO	0	Bit1 output terminal of channel status
25	CSFLAG	10	Top 40bit revise flag output terminal of channel status
	F0/P0/C0	0	Input fs cal. sig. out/data type out/input word inf. output terminal
27	F1/P1/C1	0	Input fs cal. sig. out/data type out/input word inf. output terminal
28	F2/P2/C2	0	Input fs cal. sig. out/data type out/input word inf. output terminal
29	VF/P3/C3	0	Validity flag out/data type out/input word inf. output terminal
30	DVDD	_	Digital power supply
31	DGND		Digital GND
32	AUTO	0	Non PCM burst data transfer detect sig. output terminal
	BPSYNC	0	Non PCM burst data preamble Pa, Pb, Pc, Pd sync sig. output terminal
34	ERROR	0	PLL lock error, data error flag output terminal
35	DO	0	CPU/IFD read data output terminal
36	DI	11	CPU I/F write data input terminal
37	CE		CPU I/F chip enable input terminal
38	CL		CPU I/F chip enable input terminal
39	XSEL	1	Frequency select input pin of XIN X'tal osc. (24.576MHz or 12.288MHz)
	MODE0	1	Mode setting input terminal
41	MODE1		Mode setting input terminal
42	DGND		Digital GND
43	DVDD		Digital power supply
44	DOSEL0	1	Data output format select input terminal
45	DOSEL1	1	Data output format select input terminal
46	CKSEL0	1	Output clock select input terminal
47	CKSEL1	ī	Output clock select input terminal
48	XMODE		Reset input terminal

[•] For latch-up countermeasure, set digital (DVDD) and analog (AVDD) power on/off in the same timing.

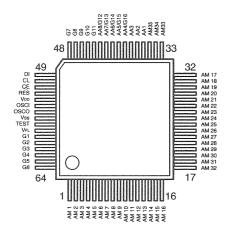
AK4527VQ (IC813)



AK4527VQ Terminal Function

H M CH	527VQ Teri		ii ruiiciioii			
Pin No.	Pin Name	1/0	Function			
1	SDOS	<u> </u>	SDTO source select pin, L: Internal ADC output, H: DAUX input			
2	I2C		erial control mode select pin, L: 3-core serial, H: I°C bus			
3	SMUTE I Soft mute pin, H: Soft mute start, L: Release					
4	BICK		Audio serial data clock pin			
5	LRCK	1	Input channel clock pin			
6	SDTI1		DAC1 audio serial data input pin			
7	SDTI2	I	DAC2 audio serial data input pin			
8	SDTI3		DAC3 audio serial data input pin			
9	SDTO	0	Audio serial data output pin			
10	DAUX		Auxiliary audio serial data input pin			
11	DFS		Double speed sampling mode pin, L: Normal, H: Double			
12	DEM1		De-emphasis-1 pin			
13	DEM0	1	De-emphasis-2 pin			
14	TVDD		Power pin for output buffer, 2.7V~5.5V			
15	DVDD	<u> </u>	Digital power pin, 4.5V~5.5V			
16	DVss		Digital GND pin, 0V			
17	PDN		Power down & reset pin, L: Powered-down and register initialized, Reset with PDN when switching CAD0-1			
18	ICKS2	-	Input clock select-2 pin			
19	ICKS1	1	Input clock select-1 pin			
20	ICKS0		Input clock select-0 pin			
21	CAD1		Chip address-1 pin			
22	CAD0	ı	Chip address-0 pin			
23	LOUT3	0	DAC3L channel analog out pin			
24	ROUT3	0	DAC3R channel analog out pin			
25	LOUT2	0	DAC2L channel analog out pin			
26	ROUT2	0	DAC2R channel analog out pin			
27	LOUT1	0	DAC1L channel analog out pin			
28	ROUT1	0	DAC1R channel analog out pin			
29	LIN-		L-ch analog inverted input pin			
30	LIN+	ı	L-ch analog non-inverted input pin			
31	RIN-		R-ch analog inverted input pin			
32	RIN+	1	R-ch analog non-inverted input pin			
33	DZF2	0	0 input detect 2 pin, H: Input data of G2 is 8192 times "0" in a raw or RSTN bit "0", L: When P/S= "0"			
34	VCOM	0	Common V-out pin, AVDD/2, connect large capacitor to avoid noise			
35	VREFH	1	Ref. V input pin, AVDD			
36	AVDD		Analog GND pin, 4.5V~5.5V			
37	AVss	_	Analog GND pin, 0V			
38	DZF1	0	0 input detect pin, H: Input data of G1 is 8192 times "0" in a raw or RSTN bit "0", L: When P/S= "0"			
39	MCLK		Master clock input pin			
40	P/S		Parallel/Serial select pin, L: Serial control			
41	DIF0	I	Audio data I/F format 0 pin (parallel control)			
41	CSN		Chip select pin (3-wire serial control), connect to DVDD when I ² C bus control			
42	DIFI		Audio data I/F format 1 pin (parallel control)			
44	SCL/CCLK		Control data clock pin (serial control), I ² C="L": CCLK (3-wire serial), I ² C="H": SCL (I ² C bus)			
43	LOOP0	ı	Loop back mode 0 pin (parallel control), effects digital loop back ADC to all DAC			
	SDA/CDTI	1/0	Control data input pin (serial control), I2C="L": CCTI (3-wire serial), I2C="H" SDA (I2C bus)			
44	LOOP1		Loop back mode 1 pin, from SDT1 to all DAC			

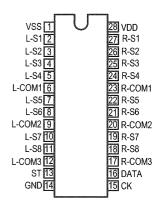
LC75721E (C301)



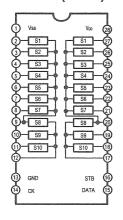
LC75721E Terminal Function

Symbol	Function	
VDD	Power terminal +5V	
Vss	Power terminal GND	
VFL	Power terminal FL drive	
DI CL CE	Serial data transfer terminal DI: Data CL: Clock CE: Chip enable	
OSCI OSCO	External CR connecting terminal	
RES	System reset terminal	
AM1~AM35 AA1~AA3	Anode output terminal	
AA4/G16 AA5/G15 AA6/G14 AA7/G13 AA8/G12	Anode/Grid output terminal	
G1~G11	Grid output terminal	
TEST	LSI test terminal	

KIC9164AN(C221)



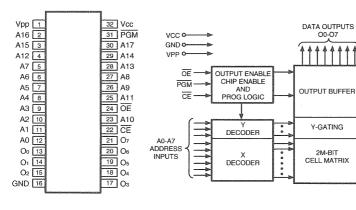
TC9273N-007(IC701)



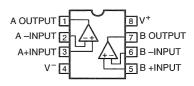
TC9273N Terminal Function

Pin No	Symbol	Name	Function	
1	Vss	+Power Terminal	Dual Power Use:VDD = 8.0~17 V Single Power Use:VDD = 8.0~18V	
13	GND	Digital Ground	GND=0V GND=0V	
28	VDD	+Power Terminal	Vss=-8.0~-17V	
2~12	S1~S10	I/O Terminal	Input terminal of analog switch.	
12~27	31~310	I/O Terminal	imput terminal of analog switch.	
14	CK	Clock Input	Clock input for data transfer.	Low level
15	DATA	Data Input	Serial input for switch setting.	Border Input
16	STB	Strobe Input	Strobe InputStrobe input for data writing.	Terminal

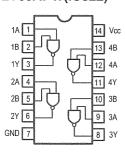
W27C020(IC807)



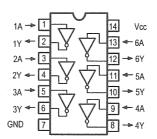
NJM2068DD (IC241,251,261,271,281,291,702,703) BA4510F(IC805~806) NJM2068MD (IC814~816)



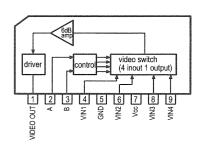
SN74LV00APW(IC822)



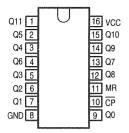
MC74HCU04AD(IC803)



LA7952(IC601,651,652)



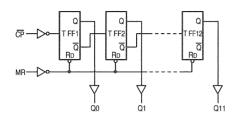
SN74LV4040 (IC831)



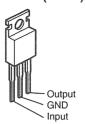
Terminal Function

INP	JTS	OUTPUTS
CP	MR	Qn
1	L	no change
1	L	count
X	Н	L

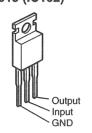
H=HIGH voltage level L=LOW voltage level X=don't care 1=LOW-to-HIGH clock transition 1=HIGH-to-LOW clock transition



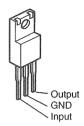
KA7805 (IC103,104) KA7815 (IC101) KIA7812 (IC602)



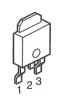
KIA7915 (IC102)



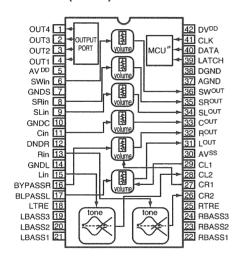
NJM7805FA (S) (IC829)



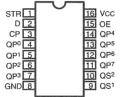
BA033FP (IC811)

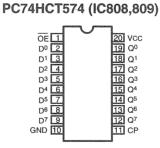


M62446FP (IC231)



PC74HC4094 (IC302)

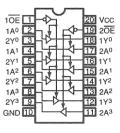




TC74HC125D (IC821)

1G 1	14 Vcc 13 4G
1Y 3	12 4A
2G 4	11 4Y
2A 5	10 3G
2Y 6	9 3A
GND 7	8 3Y

TC74HCT244 (IC828,830)



IC PROTECTOR

ICP-N15 (IC105)



POSISTOR

P43T7D330BW16



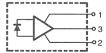
OPTICAL OUT

GP1F37R1 (IC802)



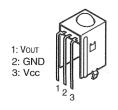
1. Vcc 2. GND

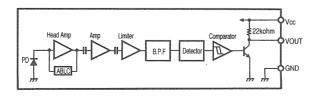
3. Vout



IR SENSOR

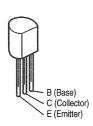
NJL64H380A(RMC301)



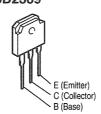


TRANSISTOR

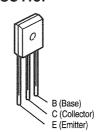




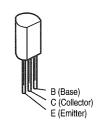
2SB1559 2SD2389



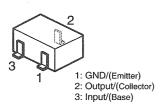
2SC4137



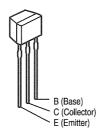
KSA916(Y)



2SC2412K(S)



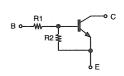
DTA114ES(PNP) DTA144ES(PNP) DTC144ES(NPN) DTC114YS(NPN)



PNP Type

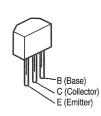
	R1	R2
DTA114ES	10kohm	10kohm
DTA144ES	47kohm	47kohm

NPN Type



	R1	R2
DTC114YS	10kohm	47kohm
DTC144ES	47kohm	47kohm

2SC1740S



DTA114EK DTA144EK DTC114EK DTC144EK



1: GND/(Emitter)
2: Output/(Collector)
3: Input/(Base)

PNP Type



	R1	R2
DTA114EK	10kohm	10kohm
DTA144EK	47kohm	47kohm

NPN Type



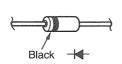
	R1	R2
DTC114EK	10kohm	10kohm
DTC144EK	47kohm	47kohm

DIODES (LED Included)

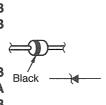
1SS133



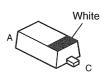
1N4004A



MTZJ9.1B
MTZJ5.6B
MTZJ6.2B
MTZJ18B
MTZJ20B
MTZJ3.3B
MTZJ7.5A
MTZJ7.5B

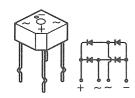


KDS160

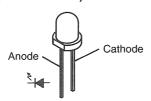


KBPC604

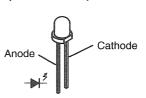
Yellow



HL50RDRF4T (LED301~307)

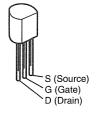


HL-30RDRF3 (LED308,309)



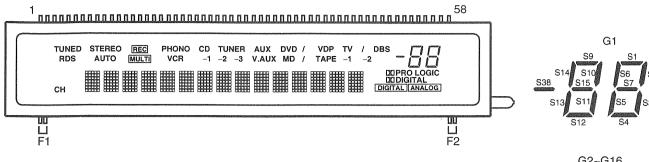
O FET





• FL DISPLAY

16-st-42GNK (FL301)



G16 TUNED RDS	G15 STEREO AUTO	G13 G12 REC PHONO MULTI VCR	,	G7 G6 AUX DVI V.AUX MD	G5 G4 G3 7 VDP TV 7 TAPE -1	G2 G1 / DBS
сн	G14					DIPRO LOGIC DIDIGITAL

	G2~G16												
S1	S2	S3	S4	S5									
S6	S7	S8	S9	S10									
S11	S12	S13	S14	S15									
S16	S17	S18	S19	S20									
S21	S22	S23	S24	S25									
S26	S27	S28	S29	S30									
S31	S32	S33	S34	S35									

Pin Assignment

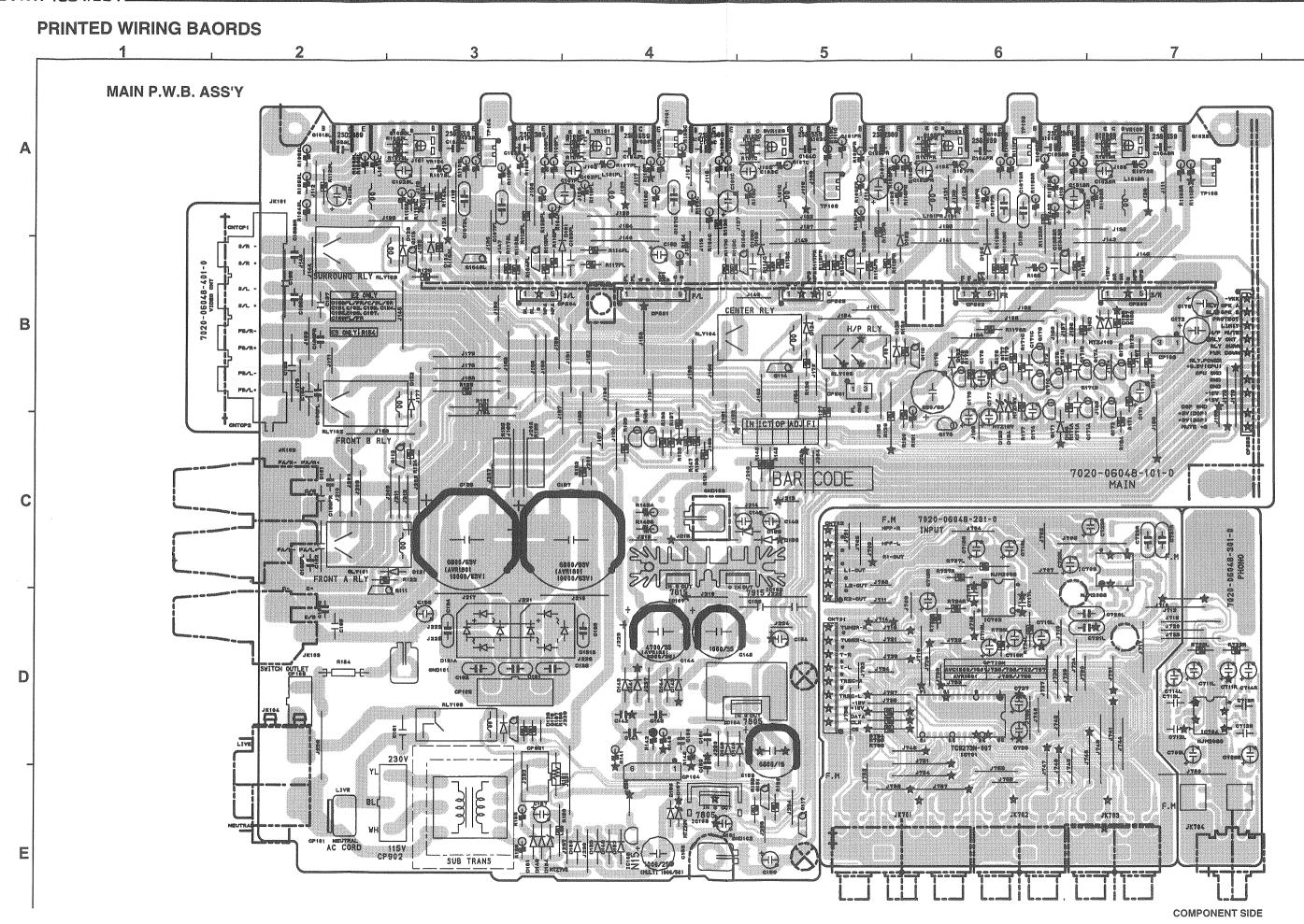
PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CONNECTION	F1	F1	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18
PIN NO.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CONNECTION	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38
PIN NO.	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		
CONNECTION	G16	G15	G14	G13	G12	G11	G10	G9	G8	G7	G6	G5	G4	G3	G2	G1	F2	F2		

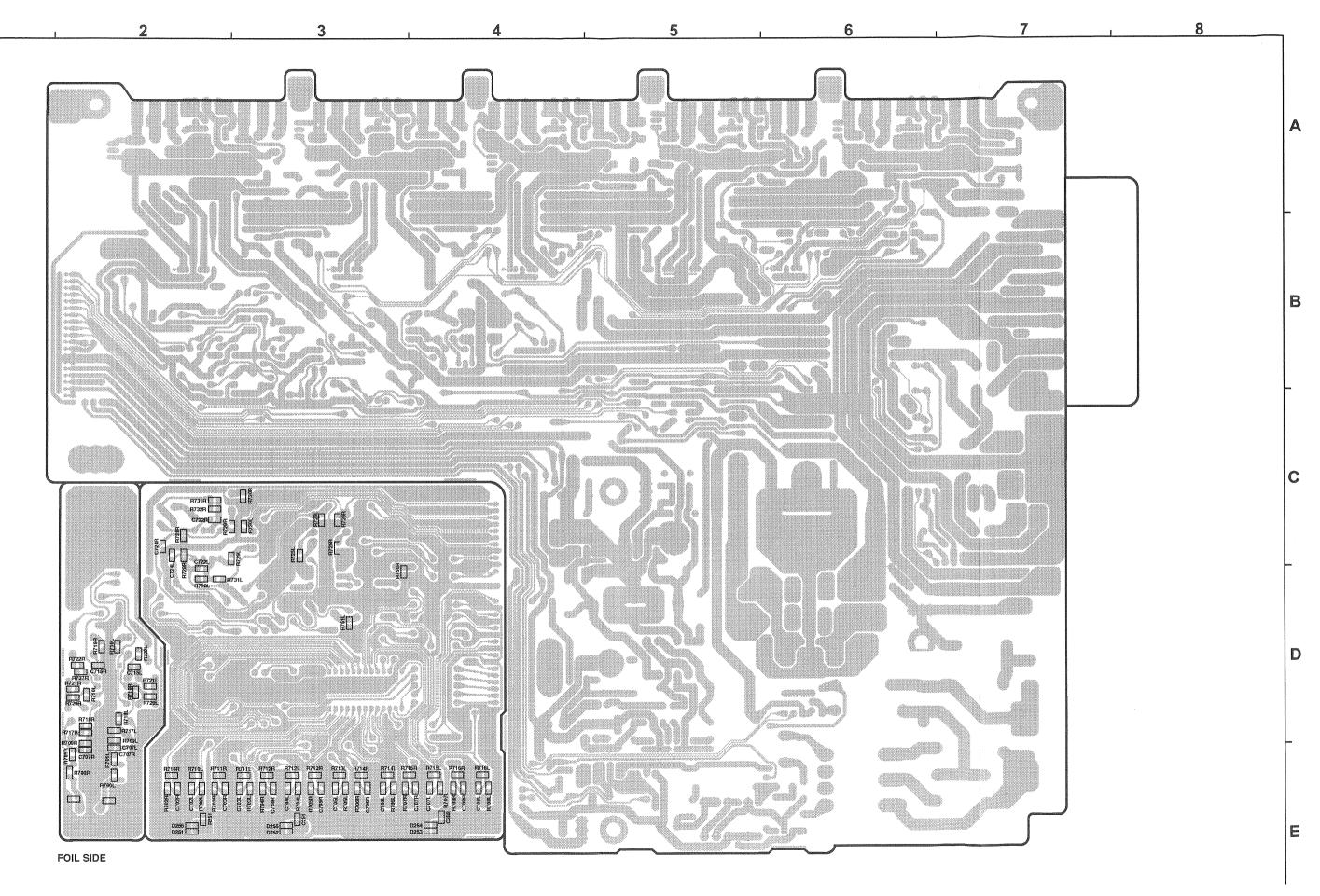
F1,F2 : Filament G1~G16 : Grid S1~S38 : Anode

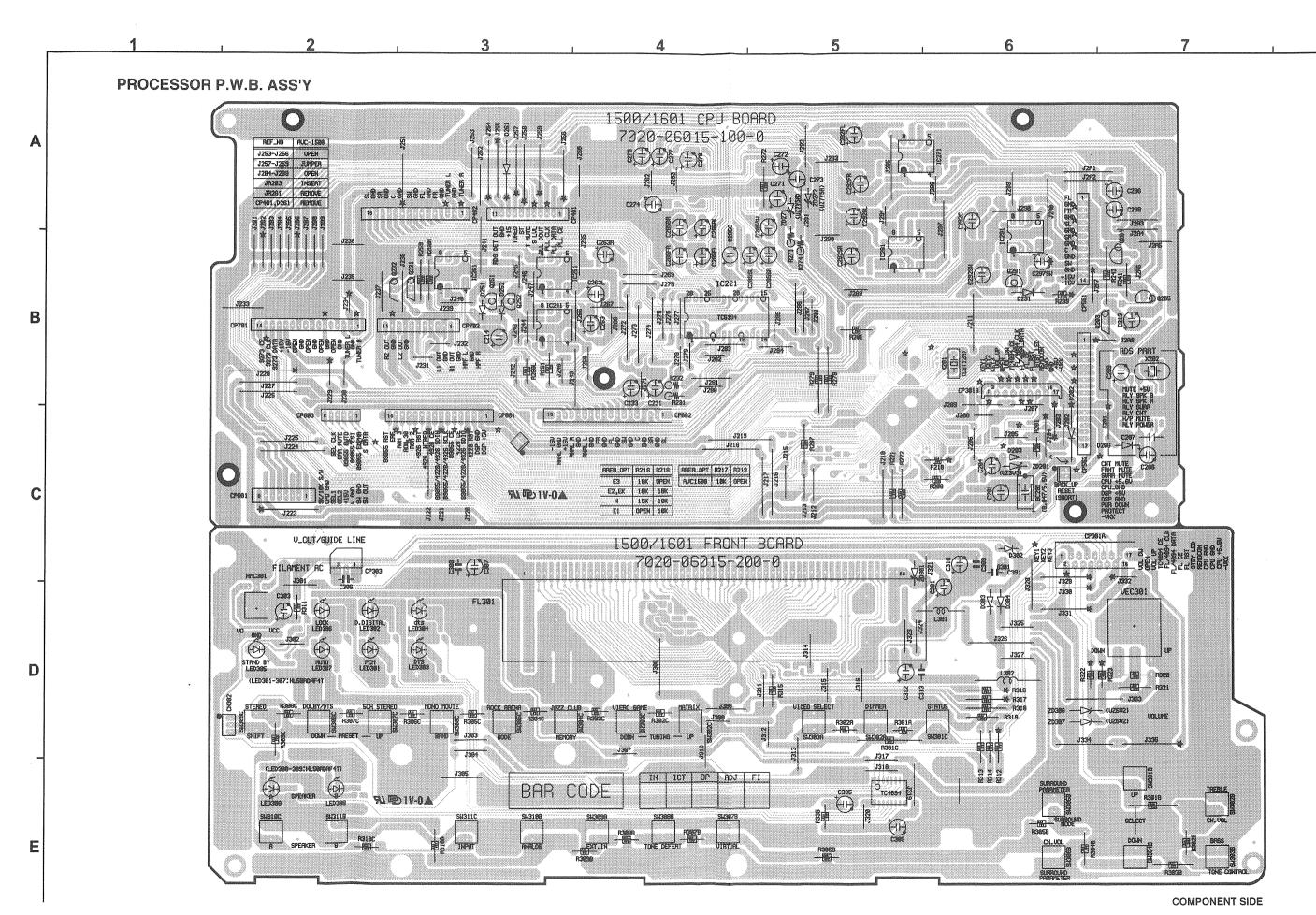
Anode & Grid Assignment

	G1	G2~G16		G1	G2~G16		G1	G2~G16		G1	G2~G16
S1	S1	S1	S10	S10	S10	S19		S19	S28		S28
S2	S2	S2	S11	S11	S11	S20		S20	S29	<u> </u>	S29
S3	S3	S3	S12	S12	S12	S21		S21	S30		S30
S4	S4	S4	S13	S13	S13	S22		S22	S31		S31
S5	S5	S5	S14	S14	S14	S23		S23	S32		S32
S6	S6	S6	S15	S15	S15	S24		S24	S33		S33
S7	S7	S7	S16		S16	S25		S25	S34		S34
S8		S8	S17	DIDIGITA	AL S17	S26		S26	S35		S35
S9	S9	S9	S18	DID PRO LO	GIC S18	S27		S27			

	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16
S36	DIGITAL	/	TV	VDP	/(DVD)	DVD	AUX		TUNER	CD		PHONO	REC		STEREO	TUNED
S37	ANALOG	-2	-1	TAPE	/(MD)	MD	V.MAX		-2	-1		VCR	MULTI		AUTO	RDS
S38	S38	DBS							-3							СН







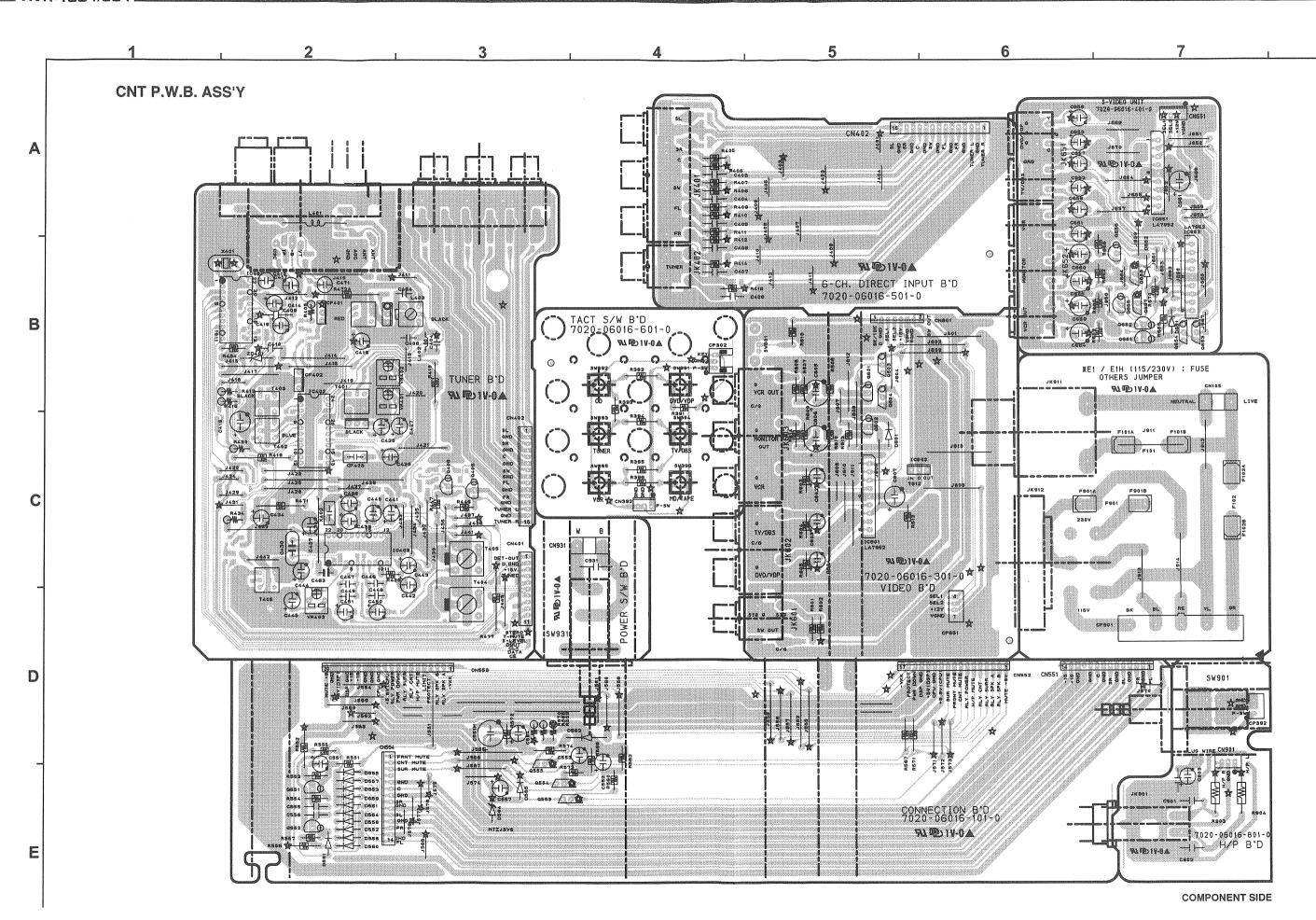
A

В

R283 E225 10 IC202 1C302 FOIL SIDE

D

E



В

C

D

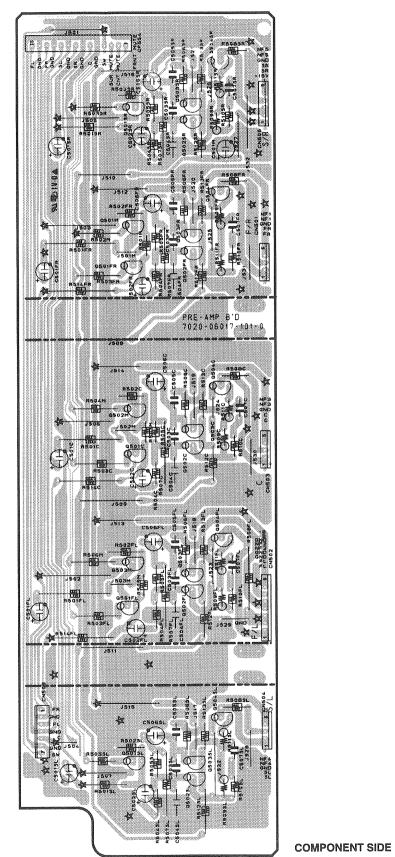
FOIL SIDE

21

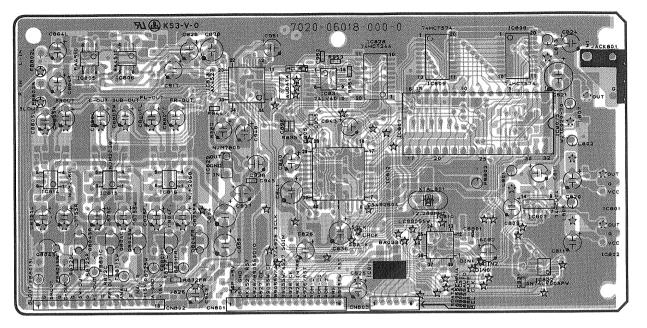
E

1 2 3 4 5 6 7 8

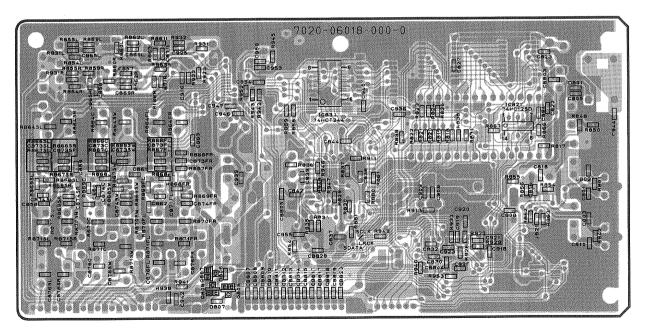
PRE-AMP P.W.B. ASS'Y



DSP P.W.B. ASS'Y



COMPONENT SIDE



FOIL SIDE

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remark	S
C443		Electrolytic 10µF/35V	D040100085100	C656~658		Electrolytic 47µF/10V	D04047008205	50
C444		Electrolytic 4.7µF/50V	D0404R7087100				for E3,EU,E1,E	1C,
C445		Electrolytic 10μF/35V	D040100085100				E1H,E1T	
C446,447		Ceramic 270pF/50V	D004271277050	C659,660		Electrolytic 470µF/10V	D04047108206	30
		'	for E3,EU				for E3,EU,E1,E	1C,
C446,447		Ceramic 330pF/50V	D000331167070				E1H,E1T	·
,			for E2	C661		Electrolytic 100µF/16V	D04010108310	00
C446,447		Ceramic 180pF/50V	D000181067060				for E3,EU,E1,E	
		Constitution (Coping	for E1,E1C,E1H,E1T				E1H,E1T	,
			,,	C662,663		Ceramic chip 0.047µF/50V	D01147377720	00
C448,449		Ceramic 470pF/50V	D004471067060	0002,000		Coramic orap ore repersoon	for E3,EU,E1,E	-
			for E3,EU				E1H,E1T	.10,
C448,449		Ceramic 330pF/50V	D000331167070				L 111, L 11	
			for E1,E1C,E1H,E1T	C901,902		Ceramic 0.001µF/50V	D00510217753	20
C450,451		Electrolytic 10µF/35V	D040100085100	C901,902 C903		Electrolytic 1µF/50V		
C453		Ceramic chip 27pF/50V	D010270167200	C903	960 9003 108	1 .	D04001008708	
C456		Ceramic chip 680pF/50V	D010681167200	C904	960 9003 108	Ceramic 0.022μF/25V	D00522359452	20
C461		Ceramic chip 27pF/50V	D010270167200					
C462		Ceramic chip 470pF/50V	D010471167200	OTHER P	ARTS GROU	P		Q'ty
0402		Octamic only 47 opt 700 v	for E2					
C462C,FL,		Ceramic chip 220pF/50V	D010221167200	CF401	960 0187 104	Ceramic filter SFE10.7MA8	E430107000140	1
FR,SL,SR,		Ceramic chip 220pi /30V	0010221107200	200111111111111111111111111111111111111			for E3,EU	
SW				CF401	960 0177 509	Ceramic filter SFE10.7MS3GH	E430107000150	1
		Made of films 0.000 v. T/400V	Doorcoococo				for E2	
C463		Mylar film 0.056μF/100V	D02056306C060	CF401	960 0187 104	Ceramic filter SFE10.7MA8	E430107000140	1
C464		Ceramic 3pF/50V	D000030007050				for E1,E1C,	'
C471VT		Electrolytic 1μF/50V	D040010087080				E1H,E1T	
C472VT		Ceramic chip 0.047µF/50V	D011473777200	CF402	960 0187 104	Ceramic filter SFE10.7MA8	E430107000140	1
C551		Electrolytic 2.2µF/50V	D0402R2087100			·	for E3,EU	
C551M		Electrolytic 100µF/35V	D040101085100	CF402	960 0177 509	Ceramic filter SFE10.7MS3GH	E430107000150	1
C551S		Ceramic 0.047µF/50V	D005473597520				for E2	
C552~554		Electrolytic 0.1µF/50V	D040R10087070	CF402	960 0177 509	Ceramic filter SFE10.7MS3GH	E430107000150	1
C555,556		Ceramic 0.01µF/16V	D005103773530	1006			for E1,E1C,	
C557		Electrolytic 10μF/35V	D040100085050				E1H,E1T	
0001		Electrolytic Topi 700 v	D040100003030	CF403	960 0187 609	Ceramic resonator	E830450000070	1
C601		Ceramic chip 100pF/50V	D010101167200					
C602~604		Electrolytic 47µF/10V	D040470082050	CN392	960 0198 009	2P connector cord	L000800020040	1
C605,606		Electrolytic 470µF/6.3V	D040471082030				for E3,EU	
C607		Electrolytic 100μF/16V	D040471081100	CN401	963 0046 600	11P connector base	L101352371110	1
C608		Ceramic chip 100pF/50V	D010101167200	CN402	963 0049 607	15P connector base	L101352371510	1
C006		Ceramic chip 100pF/50V	1	CN551	960 0124 604	14P connector base	L101352371410	
C600		Carbon abin 0 abr 1/1014/	for E1,E1H,E1T C200000060200	CN552	963 0049 704	17P connector base	L101352371710	
C608		Carbon chip 0 ohm 1/10W		CN553	963 0049 801	20P connector base	L101352372010	1
C611		Ceramic chip 0.01µF/50V	for E1C	CN554	960 0198 106	14P connector cord	L000800140010	1
C612,613		' '	D011103777200	CN601	i	8P connector base	L101352370810	1
C612,613 C651~653		Ceramic chip 0.047µF/50V	D011473777200	CN651	1	4P connector cord	L000141040010	1
∪001~003		Electrolytic 47μF/10V	D040470082050	311301	355 5157 500	Somiotor soru	for E3,EU,E1,	1
			for E3,EU,E1,E1C,				E1C,E1H,E1T	
0054.055		El La la la companya de la companya	E1H,E1T	CN901	960 0107 201	3P connector cord		1
C654,655		Electrolytic 470μF/10V	D040471082060	OINDUI	300 0137 301	or connector cord	L352103263300	1
			for E3,EU,E1,E1C,	CP302	963 0049 908	3P connector base	L101220030010	1
			E1H,E1T	CP302 CP392	1	3P connector base	L101220030010	
				01 332	300 0040 303	OI COUNTECTON DASE		1
				7			for E3,EU	

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty
CP392	960 0059 707	2P connector base	L000351020040	1		960 0181 401	4P S terminal	G403040010010	+
		·	for E2,E1,E1C,					for E3,EU,E1,	
			E1H,E1T					E1C,E1H,E1T	
CP651	963 0050 104	4P connector base	L101220040000	1		960 0176 209	Push switch	G000122000010	1
			for E3,EU,E1,					for E3,EU	
			E1C,E1H,E1T			960 0187 502	Head phone jack(D6.5)	G402038400031	1
FE401	960 0187 706	Front end	E900401010020	1					
					en and an				
G901	******	1P wire	8410800010010	1	T. C.				
J403,404		Carbon chip 0 ohm 1/10W	C200000061300	2					
			for E3,EU,E1,		000				
			E1C,E1H,E1T						
L401	963 0052 102	Inductor tu H	D3301R0001020	1					
L401 L402		Inductor 10µH	D330100700520	1					
L403		MW IF COIL RBW07VB-K5025 BLK	D950500500010	1					
2.00	000 0000 100	THE COLL STORY DE MODES DE M		·					
SW391~396	963 0045 708	Tact switch	G180000270010	6					
SW601	963 0056 700	SLIDE SW	G060110100010	1					
			for E1,E1H,E1T						
SW901	963 0056 603	Push switch	G000040890000	1					
			for E2,E1,E1C,						
			E1H,E1T						
SW901	960 0176 209	Push switch	G000122000010						
			for E3,EU		94 100 100 100 100 100 100 100 100 100 10				
					Contraction of the Contraction o				
T401		MW IF COIL PCFMAF-270	D950500200000	1					
T402		FM DET TRANS	D951561100000	1					
T403		FM DET TRANS	D951561200000	1					
T404,405	960 0071 207	MPX filter	E401500100000 for E2	2					
T406	960 0037 607	antihirdia filtar	E403126832410	1					
1400	300 0007 007	andbirdie liitei	for E2	'					
			101 22						
X401	960 0187 405	Crystal 7.2 MHz	E8007R2000071	1	12 TO THE REAL PROPERTY.				
X402		Resonator CSB456F11	E830456000050	.1					
	960 0184 000	Screw bracket	4010210196000	2					
	963 0054 003	Shield tuner pack	3070210056000	1	No.				
	960 0184 602	Plaate	4470210146000	1					
1		3P antenna terminal	G593021068010	1	o septembra				
	960 0188 307	6P pin jack	G603060610010	1	CANCELLE COMPA				
					Thomas and the same of the sam				
I	960 0194 508		G600010003020	1					
I	960 0194 605		G601020163010	1					
1	960 0188 404		G606030164020	1					
	960 0181 304	or o terminal	G402042190000	1					
			for E3,EU,E1, E1C,E1H,E1T						
			LIO,EIH,EII						

AMP P.W.B. UNIT

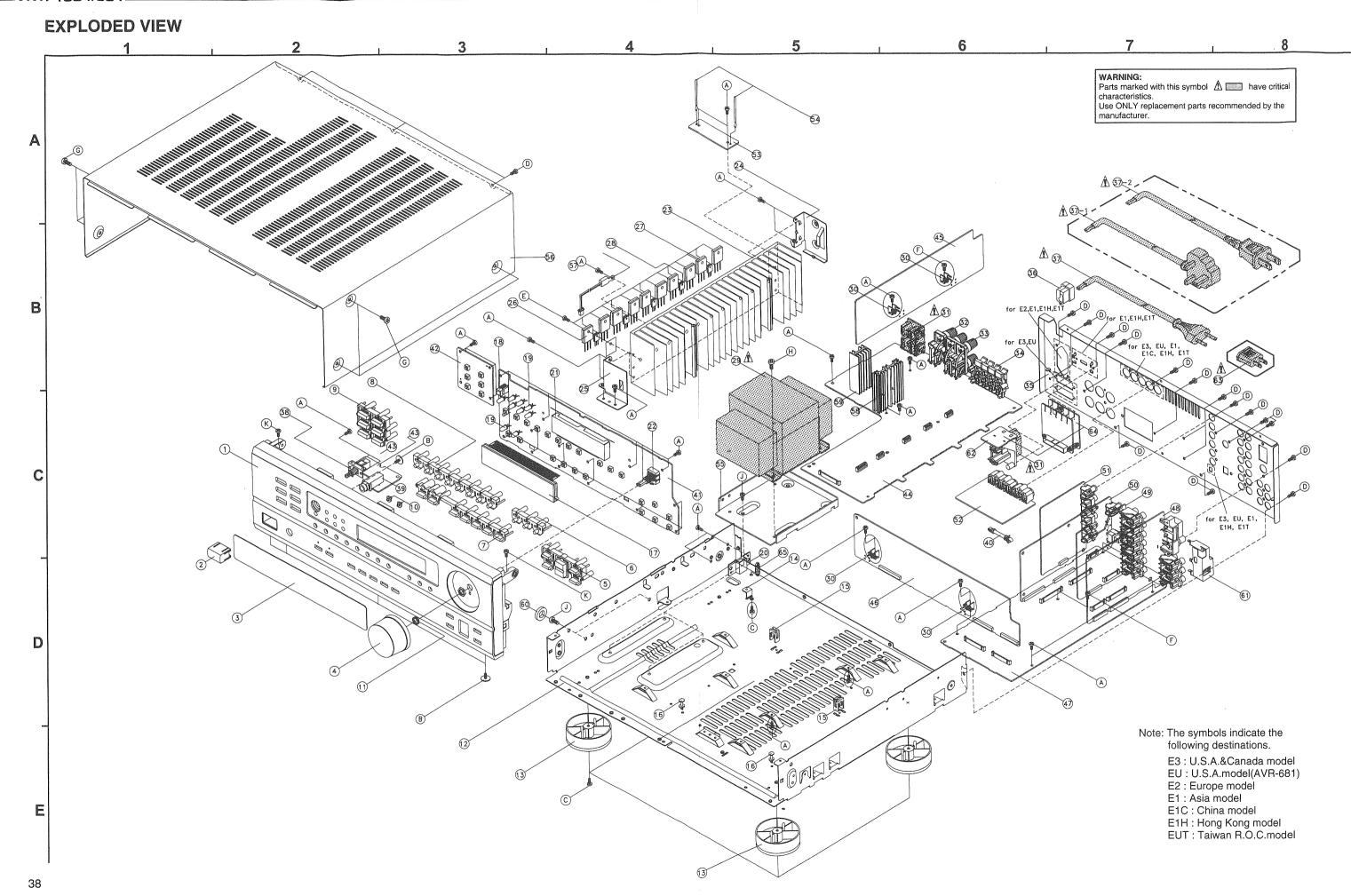
DSP P.W.B. UNIT

Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	Remarks
ļ	DUCTORS G		nemarks	2		DUCTORS		nemarks
			JE00007400044	١			T	\ F100107000010
Q501C,FL, FR,SL,SR	960 0196 603	Transistor KTC2874B	J502287400010	J	IC802 IC803	960 0180 800	Optical connector (GP1F37R1 IC MC74HCU04AD	1
	000 0100 000	Transister KCA000E	JE000003E00E	`				J040740400200
Q502C,FL,	960 0196 205	Transistor KSA992F	J5000992F005)	IC805,806	963 0043 807		J121451000010
FR,SL,SR		*			IC807	960 0195 002		J000270200010
Q503C,FL,					IC807S		32P IC socket	G450320000010
FR,SL,SR	000 0400 500	T K0040455	1500/0/55000	_	IC808,809		IC DC74HCT574	J040745740040
Q504C,FL,	960 0196 506	Transistor KSC1845F	J5021845F0000)	IC810	960 0195 507		J046890550010
FR,SL,SR					IC811	960 0195 905		J12603R300020
					IC812	960 0195 701	IC CS492604-CL	262 2657 907
RESISTO	RS GROUP				IC813	960 0195 604	IC AK4527VQ	J080452700010
R509C,FL,	960 9005 902	Metal film 1.2 kohm 1/4W	C06001226305	0	IC814~816	960 0174 502	IC NJM2068DD	J121206800020
FR,SL,SR					IC821	960 0195 206	IC TC74HC125D	J040741250130
R511C,FL,	960 9004 301	Metal film 47 ohm 1/4W	C06004706305	0	IC822		IC SN74LV00APW	J040740000170
FR,SL,SR					IC828	963 0043 409	IC DC74HCT244	J040742440080
. ,					IC829	960 0196 001	IC NJM7805FA (S)	J126780500130
					IC830	963 0043 409	IC DC74HCT244	J040742440080
	ORS GROUP				IC831	960 0195 303	IC SN74LV4040	J040744040030
C501C,FL,		Electrolytic 22μF/16V	D04022008307	0	00010 51			
FR,SL,SR					Q804C,FL,	960 0196 603	Transistor KTC2874B	J502287400010
C501M		Electrolytic 10μF/35V	D04010008510		FR,SL,SR,			
C502C,FL,		Electrolytic 10μF/35V	D04010008510	0	SW			
FR,SL,SR					Q805 Q806	269 0083 901	Transistor DTA114EK	J5200114E0210
C503C,FL,	963 9003 165	Ceramic 220pF/500V	D00909221250	D009092212500		269 0082 902	Transistor DTC114EK	J5220114E0210
FR,SL,SR			D007004077700		Q807	269 0083 901	Transistor DTA114EK	J5200114E0210
C504C,FL,	963 9003 178	Ceramic 220pF/50V	D005221277520		D004	000 0107 000	Di- d- KD0400	1400201000010
FR,SL,SR				_	D801	960 0197 000	Diode KDS160	K005016000010
C505C,FL,	963 9003 181	Ceramic 33pF/500V	D00033006D05	0	D803~807	960 0197 000	Diode KDS160	K005016000010
FR,SL,SR		FI	Balakaka	_				
C506C,FL,		Electrolytic 100μF/10V	D04010108206)	RESISTO	RS GROUP		
FR,SL,SR	000 0000 101	M. J Ch 0.0000 E/4.001/	Danasasasas	_	J821,824		Carbon chip 0 ohm 1/10W	C200000060200
C507C,FL,	963 9003 194	Mylar film 0.0022μF/100V	D02022206C06	0	J828,829		Carbon chip 0 ohm 1/10W	C200000060200
FR,SL,SR								
OTHER PA	ARTS GROU	P		Q'ty	R817~825		Carbon chip 10 kohm 1/10W	C200010360200
CN501	963 0046 406	9P connector socket	L101352370910	1	R830,831		Carbon chip 10 kohm 1/10W	C200010360200
CN502~504	963 0050 201	5P connector socket	L101352370510	3	R834,835		Carbon chip 4.7 kohm 1/10W	C200047260200
CN505	963 0050 308	6P connector socket	L101352370610	1	R836		Carbon chip 10 kohm 1/10W	C200010360200
					R837		Carbon chip 47 ohm 1/10W	C200047060200
CP554	963 0050 405	14P connector base	L101220140000	1	R838		Carbon chip 10 kohm 1/10W	C200010360200
					R839,842		Carbon chip 4.7 kohm 1/10W	C200047260200
					R848		Carbon chip 100 ohm 1/10W	C200010160200
_	960 0184 000	Screw bracket	4010210196000	2	R850		Carbon chip 75 ohm 1/10W	C200075060200
					R854		Carbon chip 2.2 kohm 1/10W	C200022260200
					R854L,4R		Carbon chip 47 kohm 1/10W	C200047360200
					R855		Carbon chip 100 kohm 1/10W	C200010460200
					R856		Carbon chip 10 kohm 1/10W	C200010360200
					R858,859		Carbon chip 0 ohm 1/10W	C200000060200
					R859R		Carbon chip 4.7 kohm 1/10W	C200047260200
					R860L,R		Carbon chip 4.7 kohm 1/10W	C200047260200
					R861		Carbon chip 47 ohm 1/10W	C200047060200
					R861L,R		Carbon chip 470 ohm 1/10W	C200047160200
					R862L,R		Carbon chip 4.7 kohm 1/10W	C200047260200

Ref. No.	Part No.	Part Name	Remarks	Ref. No.	Part No.	Part Name	Remarks
R863L,R		Carbon chip 470 ohm 1/10W	C200047160200	CAPACIT	ORS GROUP)	
R864C,FL,		Carbon chip 100 kohm 1/10W	C200010460200	C803,805		Ceramic chip 22pF/50V	D010220167200
FR,SL,SR,		·		C808		Ceramic chip 0.1µF/50V	D011104597200
sw				C809		Electrolytic 100µF/10V	D040101082060
R866		Carbon chip 10 kohm 1/10W	C200010360200	C810		Ceramic chip 0.1µF/50V	D011104597200
R866C,FL,		Carbon chip 4.7 kohm 1/10W	C200047260200	C811		Electrolytic 47µF/10V	D040470082050
FR,SL,SR,		•		C816		Ceramic chip 22pF/50V	D010220167200
SW				C817		Electrolytic 0.1µF/50V	D040R10087070
R867		Carbon chip 100 kohm 1/10W	C200010460200	C818		Ceramic chip 0.1µF/50V	D011104597200
R867C,FL,		Carbon chip 4.7 kohm 1/10W	C200047260200	C821		Electrolytic 1000µF/6.3V	D040102081060
FR,SL,SR,		,		C822,823		Ceramic chip 0.1µF/50V	D011104597200
SW				C824		Electrolytic 100μF/10V	D040101082060
R868C,FL,		Carbon chip 4.7 kohm 1/10W	C200047260200	C825		Electrolytic 1µF/50V	D040101087050
FR,SL,SR,				C826		Electrolytic 10µF/35V	D04010007030
SW				C827		Ceramic chip 0.1µF/50V	D011104597200
R869C,FL,		Carbon chip 4.7 kohm 1/10W	C200047260200	C829		Electrolytic 10μF/35V	D040100085050
FR,L,SL,SR,				C830		Ceramic chip 0.1µF/50V	D040100083030
sw				C832,833		Ceramic chip 0.1µF/50V	D011104597200
R870C,FL,		Carbon chip 1 kohm 1/10W	C200010260200	C836		Electrolytic 220µF/6.3V	D040221081050
FR,SL,SR,				C837,838		Ceramic chip 0.1µF/50V	
SW				C839		' '	D011104597200
R871C,FL,		Carbon chip 100 kohm 1/10W	C200010460200	C840		Ceramic chip 0.22µF/50V	D011224597200
FR,SL,SR,		Carbon omp 100 nomm 1/1011	0200010100200	C841		Electrolytic 2.2µF/50V	D0402R2087250
SW						Electrolytic 47μF/10V	D040470082050
R872C,FL,		Carbon chip 2.2 kohm 1/10W	C200022260200	C842		Ceramic chip 0.1µF/50V	D011104597200
FR,SL,SR,		Carbon omp 2.2 Komm 17 Tovv	0200022200200	C843		Electrolytic 100µF/10V	D040101082060
SW SW				C844		Ceramic chip 0.1µF/50V	D011104597200
R880,881		Carbon chip 47 ohm 1/10W	C200047060200	C854,855		Electrolytic 100µF/25V	D040101084060
R895		Carbon chip 100 kohm 1/10W	C200010460200	C856~863		Ceramic chip 0.1μF/50V	D011104597200
11000		Carbon only 100 konin 1/1011	0200010400200	C864L,R		Electrolytic 10µF/35V	D040100085050
R911		Carbon chip 10 kohm 1/10W	C200010360200	C865L,R		Ceramic chip 100pF/50V	D010101167200
R913		Carbon chip 1 Mohm 1/10W	C200010560200	C869L,R		Ceramic chip 100pF/50V	D010101167200
R922		Carbon chip 4.7 kohm 1/10W	C200010360200	C871L,R		Ceramic chip 1000pF/50V	D011102777200
R923		Carbon chip 6.2 kohm 1/10W	C200047260200	C873C,FL,		Ceramic chip 680pF/50V	D010681167200
R927		Carbon chip 75 ohm 1/10W	C200075060200	FR,SL,SR,			
R928		Carbon chip 5.1 kohm 1/10W	C200073000200	SW		0	D040004407000
R929		Carbon chip 8.2 kohm 1/10W	C200082260200	C874C,FL,		Ceramic chip 680pF/50V	D010681167200
R930		Carbon chip 3 kohm 1/10W	C200030260200	FR,SL,SR,			
R931		Carbon chip 6.2 kohm 1/10W	C200030260200	SW		El. 1 1 1 40 E/05)	D0 40400005050
R931L,R		Carbon chip 18 kohm 1/10W	C200018360200	C875C,FL,		Electrolytic 10μF/35V	D040100085050
R932		Carbon chip 4.7 kohm 1/10W	C200013300200	FR,SL,SR,			
R938		Carbon chip 470 kohm 1/10W	C200047260200	SW		0	B044000777000
R940		Carbon chip 10 kohm 1/10W	C200047460200	C876C,FL,		Ceramic chip 3300pF/50V	D011332777200
R941		Carbon chip 1 kohm 1/10W	C200010360200	FR,SL,SR,			
1		Carbon chip 470 ohm 1/10W		SW		F1	B04040400000
R941		i '	C200047160200	C878		Electrolytic 100µF/10V	D040101082060
R942,943		Carbon chip 0 ohm 1/10W	C200000060200	C880C,FL,		Electrolytic 10μF/35V	D040100085050
R945~948		Carbon chip 0 ohm 1/10W	C200000060200	FR,SL,SR,			
R949		Carbon chip 47 ohm 1/10W	C200047060200	SW			
R950,951		Carbon chip 0 ohm 1/10W	C200000060200	C894,896		Ceramic chip 0.1µF/50V	D011104597200
R952~954		Carbon chip 100 ohm 1/10W	C200010160200	SPECIAL SPECIA			
				C908,909		Ceramic chip 27pF/50V	D010270167200
				C916		Ceramic chip 0.1µF/50V	D011104597200

VOLTAGE SEL P.W.B. UNIT

Ref. No.	Part No.	Part Name	Remark	s	Ref. No.	Part No.	Part Name	Remarks	Q'ty
C917	Danier de la Contraction de l	Electrolytic 10µF/35V	D04010008505	***************************************		ARTS GROU			<u> </u>
C918		Ceramic chip 0.1µF/50V	D01110459720		CN105		2P connector cord	L000121020040	1
C919		Ceramic chip 0.01µF/50V	D01110377720	00	011100	000 0000 100	21 connector cord	for E1,E1H,E1T	'
C920		Ceramic chip 0.1µF/50V	D01110459720	00	CN903	963 0058 805	2P connector cord	L000101020070	1
C921		Ceramic chip 0.01µF/50V	D01110377720	00	011000		L. Commoder cord	for E1,E1H,E1T	
C923,925		Ceramic chip 0.1µF/50V	D01110459720	00	0.000				
C926		Electrolytic 10µF/35V	D04010008505	50	CP901	963 0061 203	5P connector base	L104353280500	1
C931,935		Ceramic chip 0.01µF/50V	D01110377720	00	01001	000 000 1 200	or connector bace	for E1,E1H,E1T	
C936		Ceramic chip 0.1µF/50V	D01110459720	00	CP902	963 0059 309	3P connector base	L000151030030	1
C937		Electrolytic 10µF/35V	D04010008505	50	01 002	000 0000 000	or connector bacc	for E1,E1H,E1T	'
C938		Electrolytic 1µF/50V	D04001008705	50				10, 21,211,211	
C939,940		Ceramic chip 0.01µF/50V	D01110377720	00	ΔF101	960 0142 602	Filse 2.54	G650252251160	1
C943		Electrolytic 0.1µF/50V	D040R100870	70		000 0112 002		for E1,E1H,E1T	l '
C944		Ceramic chip 0.01µF/50V	D01110377720	1	ΔF101A,B	960 0005 804	Fuse clin	G645000050010	2
C945		Ceramic chip 1000pF/50V	D01110277720		±1, 1011(1)	000 0000 004	. 400 OHP	for E1,E1H,E1T	-
C946,947		Ceramic chip 0.1µF/50V	D01110459720		 ∆F102	963 0044 709	Fire 3 154	G650312251160	1
C948		Electrolytic 10µF/35V	D04010008505	50	221 102	000 0011 100	1 400 0.707	for E1, E1H, E1T	'
C949		Electrolytic 2.2µF/50V	D0402R20872		ΔF102A,B	960 0005 804	Fuee clin	G645000050010	2
C950		Ceramic chip 0.1µF/50V	D01110459720		MI IVEN,U	000 0000 004	1 000 VBP	for E1,E1H,E1T	١ -
C951		Electrolytic 100µF/10V	D04010108206	8	∆ F901	963 0057 107	Fire 6 3A	G650632251160	1
C952,953		Ceramic chip 0.1µF/50V	D01110459720		2131 501	000 0001 101	1 GOO DADA	for E1,E1H,E1T	'
C956		Ceramic chip 1000pF/50V	D01110277720		ΔF901A.B	960 0005 804	Fuen elle	G645000050010	2
		Condition of the Property of the	501110277720		W13014D	900 0000 DU4	r use city	for E1,E1H,E1T	۲
			<u></u>					IVI EI,EIN,EII	
OTHER PA	ARTS GROU			Q'ty	Д ЈК911	960 0143 203	AC outlet(2P)	G435040110000	1
CB801	-	BEAD,COIL CHIPBEADS	7611010000020	1	LE GIAL I	000 01 10 200	` '	for E1,E1H,E1T	
		BEAD,COIL CHIPBEADS	7611010000020	3	JK912	963 0056 904		G060268320010	1
		BEAD,COIL CHIPBEADS	7611010000020	14	01(012	000 0000 004	OLIDE OW	for E1,E1H,E1T	'
CB828,840	963 0050 502	BEAD,COIL CHIPBEADS	7611010000020	2	MANUFACTURE OF THE PROPERTY OF			101 11,111,111	
							Supporter	4070210192000	2
CN801	963 0046 707	16P connector socket	L101352371610	1	YMALEYAAA		Cappona	for E1,E1H,E1T	_
CN802	963 0050 609	18P connector socket	L101352371810	1		963 0051 103	Spacer	4300210062000	1
CN803	963 0050 308	6P connector socket	L101352370610	1	HANDON	000 0001 100	•	for E1,E1H,E1T	
				No.				,,	
' '1	963 0050 706	Beads inductor	7610035500010	6					
FR,SL,SR,									
SW					D. Constant				
FB802L,R	963 0050 706	Beads inductor	7610035500010	2					
				NO DE LA COLOR DE					
JACK801	963 0052 500	1P pin jack	G600010003100	1	400 E A A A A A A A A A A A A A A A A A A				
					dillacelessi				
L801		Inductor 4.7µH	D3304R7000150		Attangen				
L803		Inductor 2.2µH	D3302R2000150						
L805		Inductor 4.7µH	D3304R7000150	1					
L807	963 0050 900	Inductor 2.2µH	D3302R2000150	1	Kanapana da ka				
				. December	983045444				
XTAL801	960 0180 907	Crystal 12.288MHz	E80012R288020	1	SAMPLE STATE OF THE STATE OF TH				
				SCHOOLS	BENCH ALL SALES				
				Harmerica					
				Document					
				DATESWARE					
				PETROGRAMA					



Note: The symbols in the column "Remarks" indicate the following destinations.

E3: U.S.A. model, Csnada model
EU: U.S.A. model (AVR-681)
E2: Europe model
E1: Asia model

E1: Asia model

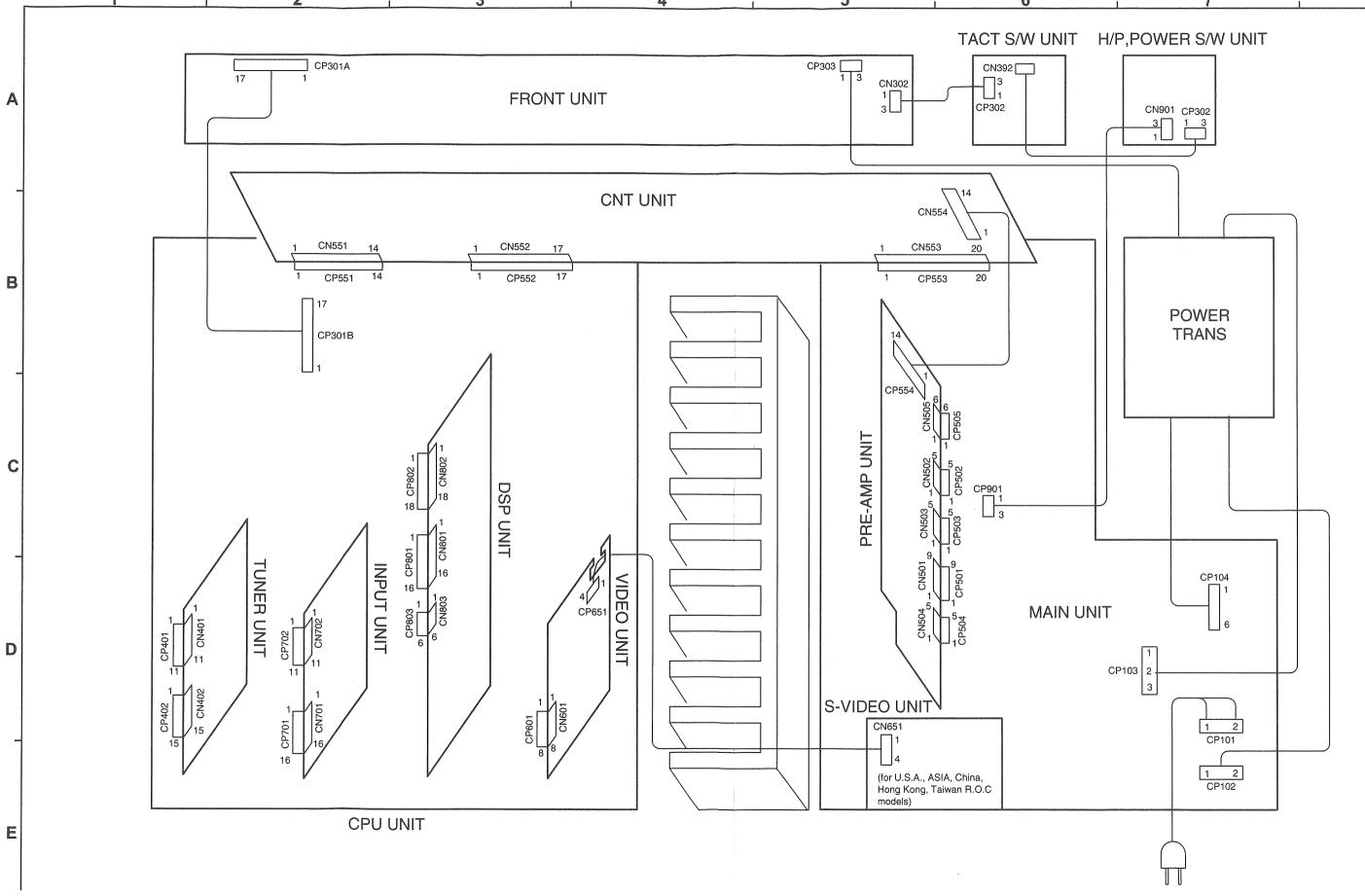
PARTS LIST OF EXPLODED VIEW

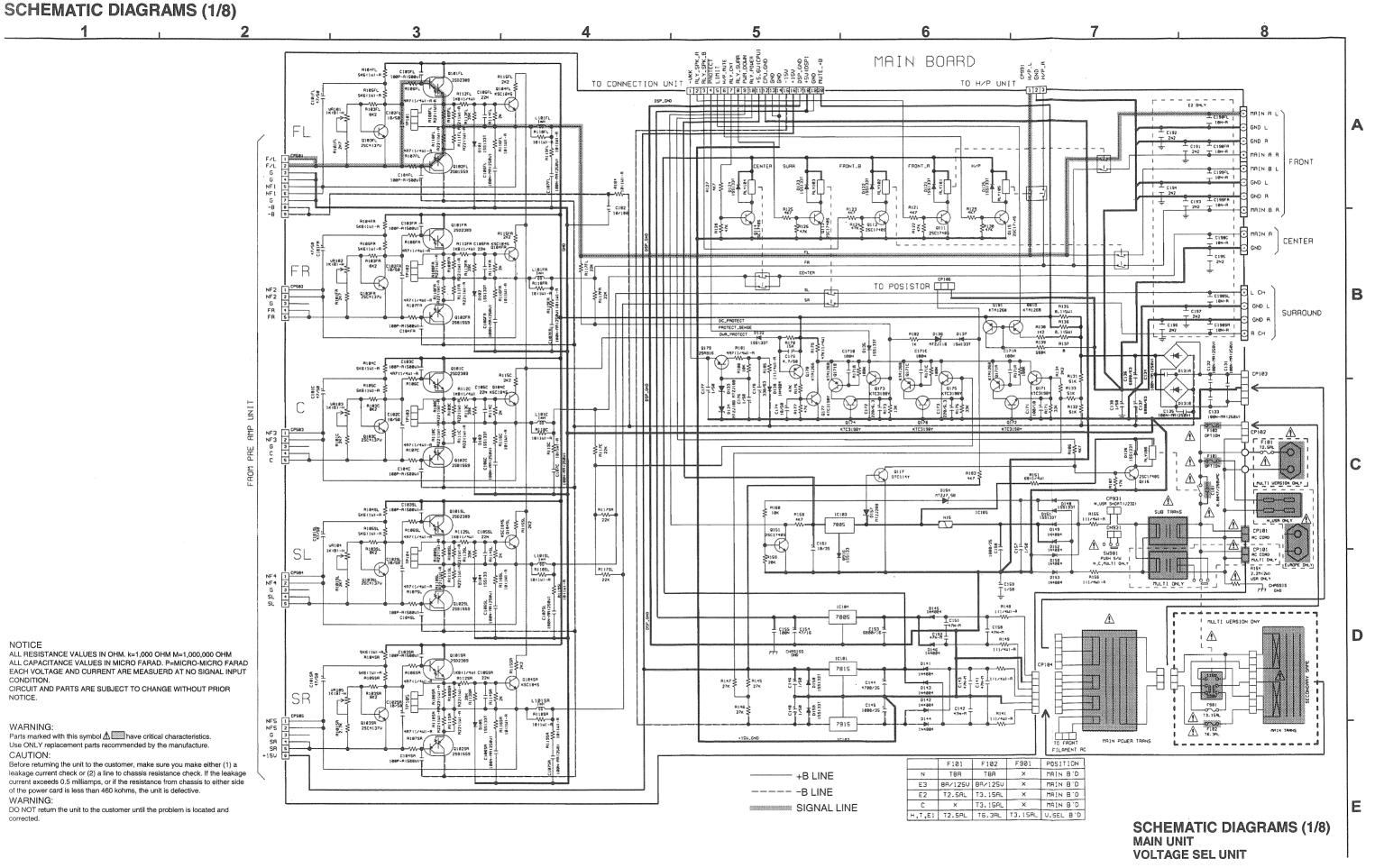
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q't
	963 0042 002	Main P.W.B assy	7025HK9908010	1	1	963 0053 143	Front panel	3067210261020	1
		•	for E3,EU				,	for E1C(Black model)	
	963 0042 028		7025HK9908040	1	2	960 0185 009	Power button	5090210201000	1
			for E2					for Black model	
	963 0042 031		7025HK9908110	1	2	960 0191 705	Power button	5097210201120	1
			for E1					for Gold mode	
	963 0042 044		7025HK9908100	1 1	3	960 0191 501	 Window	5077210262000	1
			for E1T		4	963 0054 906		5087210191010	1
	963 0042 057		7025HK9908080	1				for Black model	'
			for E1H	İ .	4	960 0191 608	Main volume knob	5087210191100	1
	963 0042 060		7025HK9908060	1			Wall Volatile Wilds	for Gold mode	'
	000 00 12 000		for E1C	'	5	963 0053 703	Button (5key)	5097210471000	1
44		Main P.W.B assy	101 210	1	ll	000 0000 700	Dallott (Olloy)	for Black model	
49		Input P.W.B assy		1	5	960 0191 802	Button (5key)	5097210471100	1
53		Video CNT P.W.B assy	for E3,EU,E1,	1	3	900 0191 002	Dutton (Skey)	for Gold mode	'
50		VIGCO OIVI 1 .VV.D assy	E1C,E1H,E1T	'	6	963 0053 606	Button (3key)	5090210511000	
	062 0042 100	Broonsor B W B assy		4	O	903 0033 000	Duttorr (Skey)		'
	303 0042 108	Processor P.W.B assy	7025HK9908011	1	6	060 0400 000	Rutton (3kov)	for Black model 5097210511100	.
	963 0042 112		for E3,EU		٥	960 0192 209	bullon (akey)	for Gold mode	
	963 0042 112		7025HK9908041	1	_	000 0050 400	D. H (71)		1.
	000 0040 405		for E2		7	963 0053 402	Buπon (7key)	5090210491000	'
	963 0042 125		7025HK9908111	1		000 0400 005	D. H (71)	for Black model	١.
			for E1,E1T,E1H,E1C	1	7	960 0192 005	Button (7key)	5097210491100	'
<u></u>		Front P.W.B assy		1	The second secon			for Gold mode	
47		CPU P.W.B assy		1	8	963 0053 509	Button (8key)	5090210501000	'
<u></u> 62		Outlet P.W.B assy	for E2	1	TO THE PARTY OF TH			for Black model	
	963 0042 206	CNT P.W.B assy	7025HK9908012	1	8	960 0192 102	Button (8key)	5097210501100	'
			for E3,EU					for Gold mode	
	963 0042 219		7025HK9908042	1	9	963 0053 305	Button (6key)	5090210481000	1
			for E2					for Black model	
	963 0042 222		7025HK9908112	1	9	960 0191 909	Button (6key)	5097210481100	-
			for E1,E1T,E1H					for Gold mode	
	963 0042 235		7025HK9908062	1	10	960 0191 404	Lens	3710210043000	2
			for E1C		11	963 0051 006	Knob spring	3720210116000	-
- 42		Switch P.W.B assy		1	12	960 0198 203	Chassis	3208210146300	'
43	—	Head phone P.W.B assy		1	miss miss			for E3,EU,E2	
46		Cnt P.W.B assy		1	12	960 0198 216	Chassis	3208210146301	'
48		Tuner P.W.B assy		1				for E1,E1C,E1H,E1T	
51		Video P.W.B assy	1	1	13	960 0183 904	Foot assy	4008020061010	4
52		S-Video P.W.B assy	for E3,EU,E1,	1	14	960 0184 107	Supporter bracket	4010210206000	-
			E1C,E1H,E1T		15	960 0003 301	PCB supporter	4070001601010	:
	963 0042 303	Amp P.W.B assy	7025HK9908013	1	16	963 0051 103	Card spacer	4300210062000	
L 45		Amp P.W.B assy		1	17		FLT (16-ST-42GNK)	K530164200010	
	963 0042 400	DSP P.W.B assy	7025HK9908014	1	рати недоважен			FL301	
L ₅₀		DSP P.W.B assy		1	18	960 0181 100	IC NJL64H380A	E940643800000	
	963 0044 408	•	7025HK9908115	1	шородина			RMC301	
		J,	for E1,E1T,E1H		19	960 0197 204	LED PI5-RD/HL50RDRF41		
L ₆₄		Voltage sel P.W.B assy	for E1,E1H,E1T	1	SACROCIONES.			LED301~309	
1	963 0053 101	Front panel	3067210261000	1	20	963 0044 505	Side bracket	4010210236000	
•	111111111111		for E3	·	T C C C C C C C C C C C C C C C C C C C			for E2,E1,E1C,E1H,E1T	
1	963 0053 130	Front nanel	3067210261030	1	21	960 0184 408	FLT holder	4320200026000	
'	200 0000 100	, torre parior	for EU	'	22	960 0181 207	Rotary encoder	G121162420400	
1	963 0053 114	Front nanel	3067210261010	1		200 0101 207	Stary Should	VEC301	
1	500 0000 114	ι τοπι μαποι	for E2	'	23		Heat sink	2120210128200	
	963 0053 127	Front popul	1	,	23	960 0184 204	Heat sink bracket B	4010210386000	
	SD3 0053 127 1	гтон ранег	3067210261120	1	24				
1	000 0000 127		for E1 E1C		0.5	060 0404 004 1	Hoot aink brookst E	401001000000	
1	12.		for E1,E1C (Gold model),E1H,E1T		25	960 0184 301	Heat sink bracket F	4010210396000	'

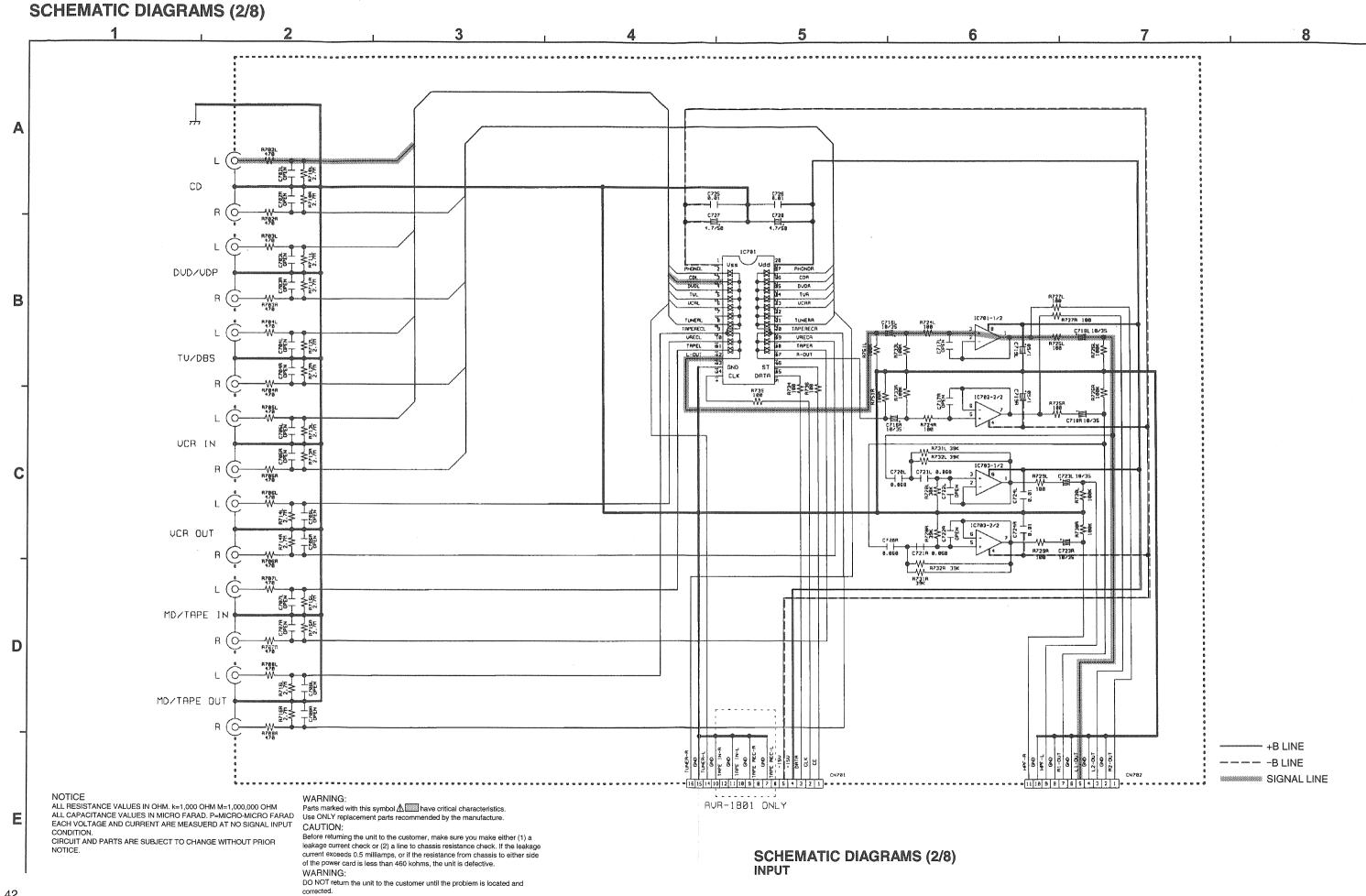
Ref. No	. Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q
2	6 960 0090 107	Transistor 2SB1559Y	J5011559Y1170	5	55	960 0192 306	Trans bracket	4010210466000	
	9600180203		Q102C,FL,FR,SL,SR		56	963 0053 004	Top cover	3000210096000	
2	960 0090 000	Transistor 2SD2389Y	J5032389Y1170	5	W Harde			for Black model	
			Q101C,FL,FR,SL,SR	Stronyou	56	960 0191 006	Top cover	3000210096100	
2	8 960 0114 300	Transistor 2SC4137	J5024137V0130	5				for Gold mode	
			Q103C,FL,FR,SL,SR		57	960 0187 900	Posistor	F320161001020	
. 2	963 0053 907	Power trans	8200858690100	1	58		Heat sink	2120043538050	
			for E3,EU		59		Heat sink	2120044308010	
. 2	9 963 0053 910	Power trans	8200858690090	1	60	963 0051 200		4050210165000	
			for E2		61	963 0054 003		3070210056000	
. 2	9 963 0053 923	Power trans	8200858690080	1	A 63	963 0061 300	AC plug adapter	L10928300310A	l
			for E1,E1H,E1T					for E1T	
. 2	9 963 0053 936	Power trans	8200858690110	1	65	963 0044 602	Supporter	4070210192000	
			for E1C		No.		_	for E2,E1,E1C,E1H,E1T	
	960 0184 000		4010210196000	4	65	963 0044 602	Supporter	4070210192000	
	11 960 0187 803	AC outlet(2P)	G435204004010		National Property of the Prope			for E1,E1H,E1T	
			JK104 for E3,EU		*	960 0093 104	Push livet	2410040353010	
	11 960 0143 203	AC outlet	G435040110000		DOM:			for E2,E1,E1C,E1H,E1T	
			for E2,E1,E1H,E1T		*	963 0061 407	Fuse caution label	5527042410020	
3	12 960 0194 809	2P speaker terminal	G611021078110	7	all water and the same and the			for E3,EU	ł
			JK103		*	963 0061 407		L301186171850	
3	3 960 0188 608	4P speaker terminal	G612041037310	1	*	i	, ,	for E1,E1H,E1T	
	.		JK102		*	515 8030 066		for E1,E1H,E1T	
3	14 960 0194 304	8P speaker terminal	G598041680020	1	*	513 2482 009		for E1T	
	_		JK101	. Name	*	E .	Serial No. sheet	for E1T	
3	963 0053 208	Back panel	3207210266000	1 1	*	513 3331 007	Rating sheet	for E1,E1H,E1T	
_		D. J J	for E3			<u> </u>			L
ë	963 0053 240	Васк рапеі	3207210266500	1	SCREWS	;			
	000 0050 011	Dook namel	for EU	, ,	Α	9630018007	Screw (2S 3×8 ZNY/BH)	B020030081B10	
č	963 0053 211	васк рапеі	3207210266100	1	ALTERNATION OF THE PROPERTY OF			for E3,EU	
,	000 0050 004	Dools named	for E2 3207210266200	1	Α	9630018007	Screw (2S 3×8 ZNY/BH)	B020030081B10	
	963 0053 224	Баск рапеі	for E1,E1H,E1T	1	the state of the s			for E2,E1,E1C,E1H,E1T	
	062 0052 227	Pook popol	3207210266400	1	В	960 9008 527	Screw (2S 3×8 WASHER)	1500001456020	
	963 0053 237	раск рапеі	for E1C	-	NAME OF TAXABLE PARTY.			for Black model	
	960 0192 403	Cord bush	4380210002000	1	В	960 9008 420	Screw (2S 3×8 WASHER)	1500001456010	
CARLOS ANTONOMOS CARLOS	960 0192 403 17 960 0165 304		L068040011010		THE STREET			for Gold mode	
	300 0 103 304	AC COTO 655)	for E2		С	9630048200	Screw (2S 3×10 ZNY/BH)	B020030101B10	
	7 963 0060 408	AC cord assy	L068040090000		D	9600108701	Screw (2S 3×10 DOT BK)	B020030103B11	
	17 303 0000 400	AC COTO dosy	for E1,E1T	1	and the second			for E3,EU	
37	1 960 0143 009	AC cord accu	L068000000040	1	D	9600108701	Screw (2S 3×10 DOT BK)	B020030103B11	
31	1 300 0140 008	AU GUIU BSSY	for E1H	'	and the second			for E2	
37	nni aarn nagi c	AC cord assy	L068020030010		D	9600108701	Screw (2S 3×10 DOT BK)	B020030103B11	
G.	2 300 0100 400	AU CUIU assy	for E3,EU		DATE OF THE PROPERTY OF THE PR			for E1,E1H,E1T	
37	9 069 0060 901	AC cord assy	L068000970020		D	9600108701	Screw (2S 3×10 DOT BK)	B020030103B11	
01	2 300 0000 001	AC curd assy	for E1C				·	for E1C	
	8 960 0176 209	Buch cwitch	G000122000010	1	E	963 9004 009	Screw (2S 3×14 WASHER ZNY/HH)	B018230141H10	
	300 0170 203	I usii switcii	for E3,EU		F	9630018104	Screw (2S 3×17 ZNY/BH)	B020030171B10	
9	8 963 0056 603	Duch ewitch	G000040890000	,	G	9630048307	Screw (2S 4×8 DOT BK)	1500040083B10	
٠	903 0030 003	i uon switch	SW901 for E2,E1,	1	BAA SALLANGE			for Black model	
			E1C,E1H,E1T		G	963 9004 012	Screw (2S 4×8 DOT NI)	1500040084B10	
	9 960 0187 502	Head phone jack (D6.5)	G402038400031	1	The state of the s			for Gold mode	
	.0	PCB holder	4420010173010	1	H	9609008417	Screw (3S 4×8 ZNY/BH)	B028940081B10	
	· -	I OD HOIGE		l . I	J	963 9004 025	Screw (3S 4×6 ZNY/BH)	B020740061B10	
	A I	Mira clamp	\dag\0000\0000\0000\0000\0000\0000\0000\	1 0 1	Į.	ı	,	l .	
	4 —	Wire clamp	4330000120000 for E3,EU,E1,E1C,	2	К	II.	Screw (2S 3×8 ZNY)	1500001206010	

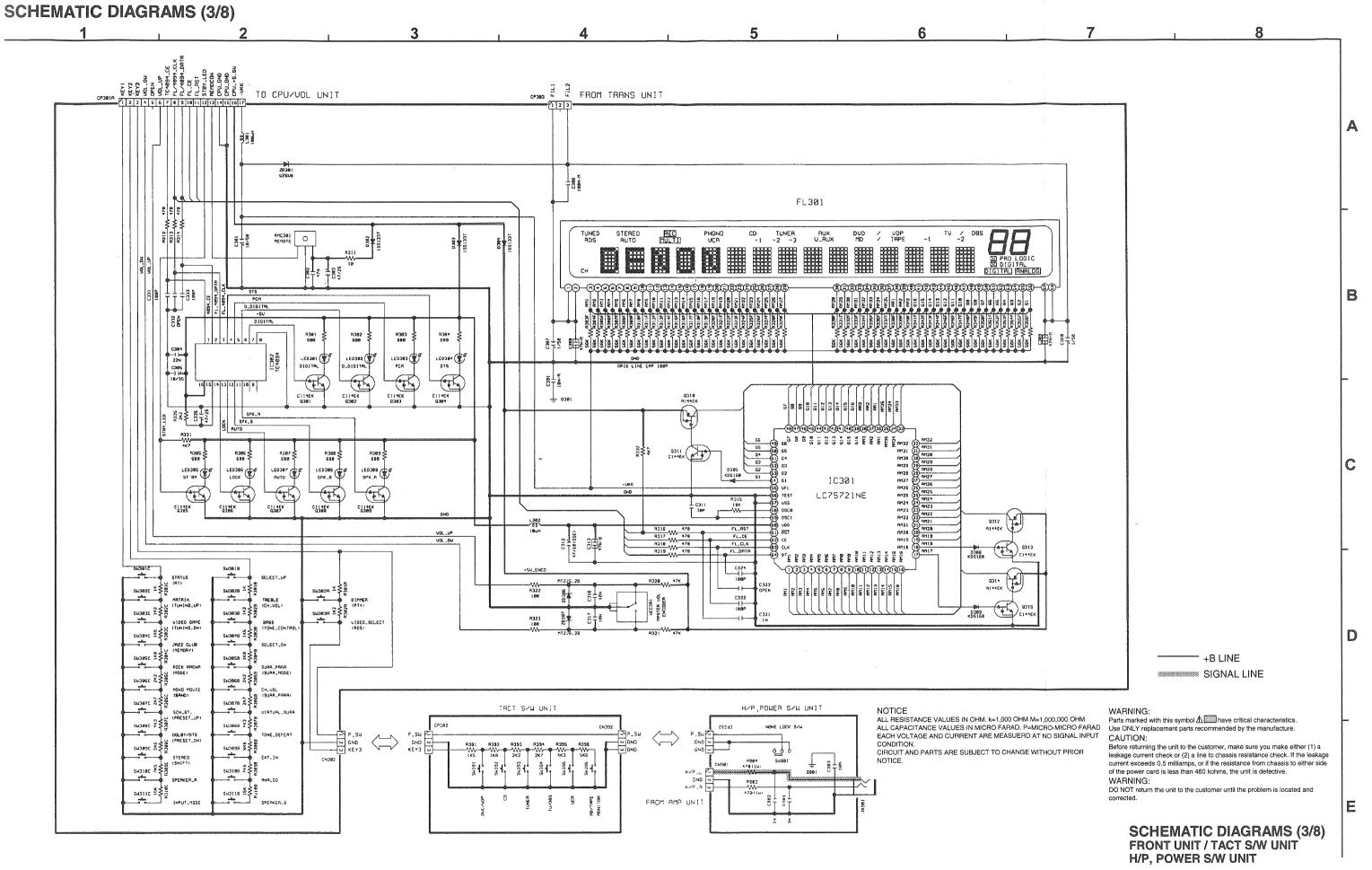
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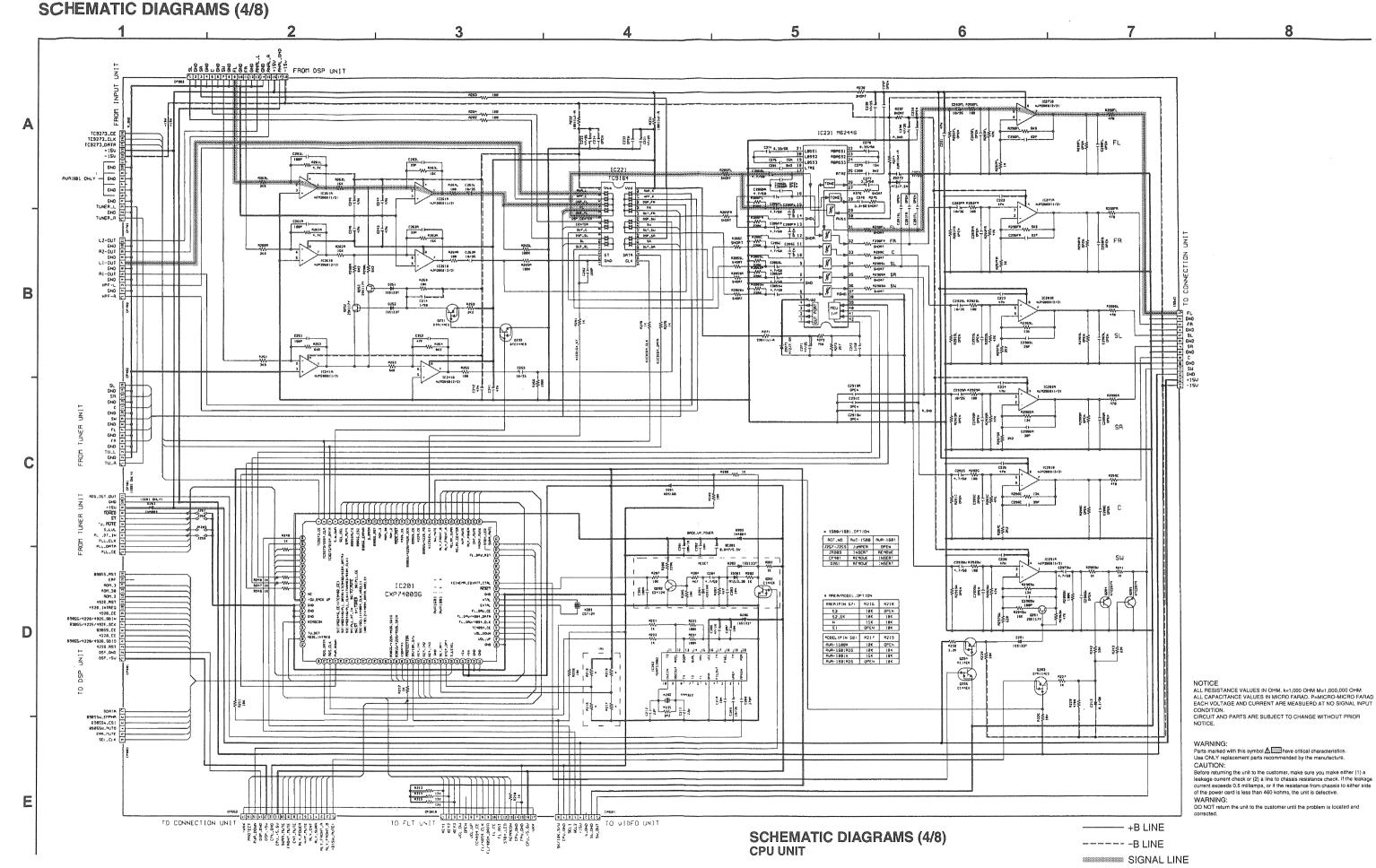
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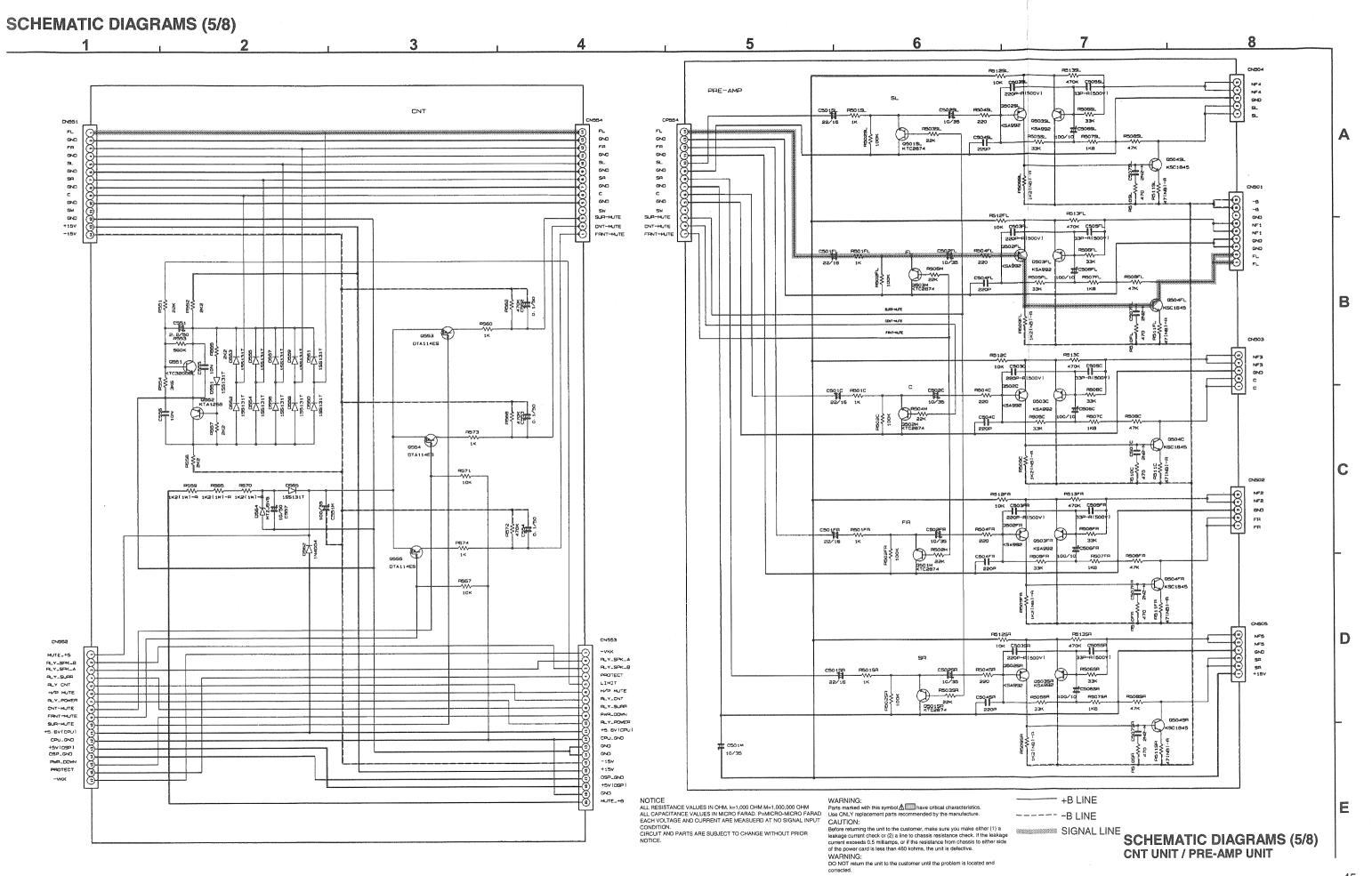


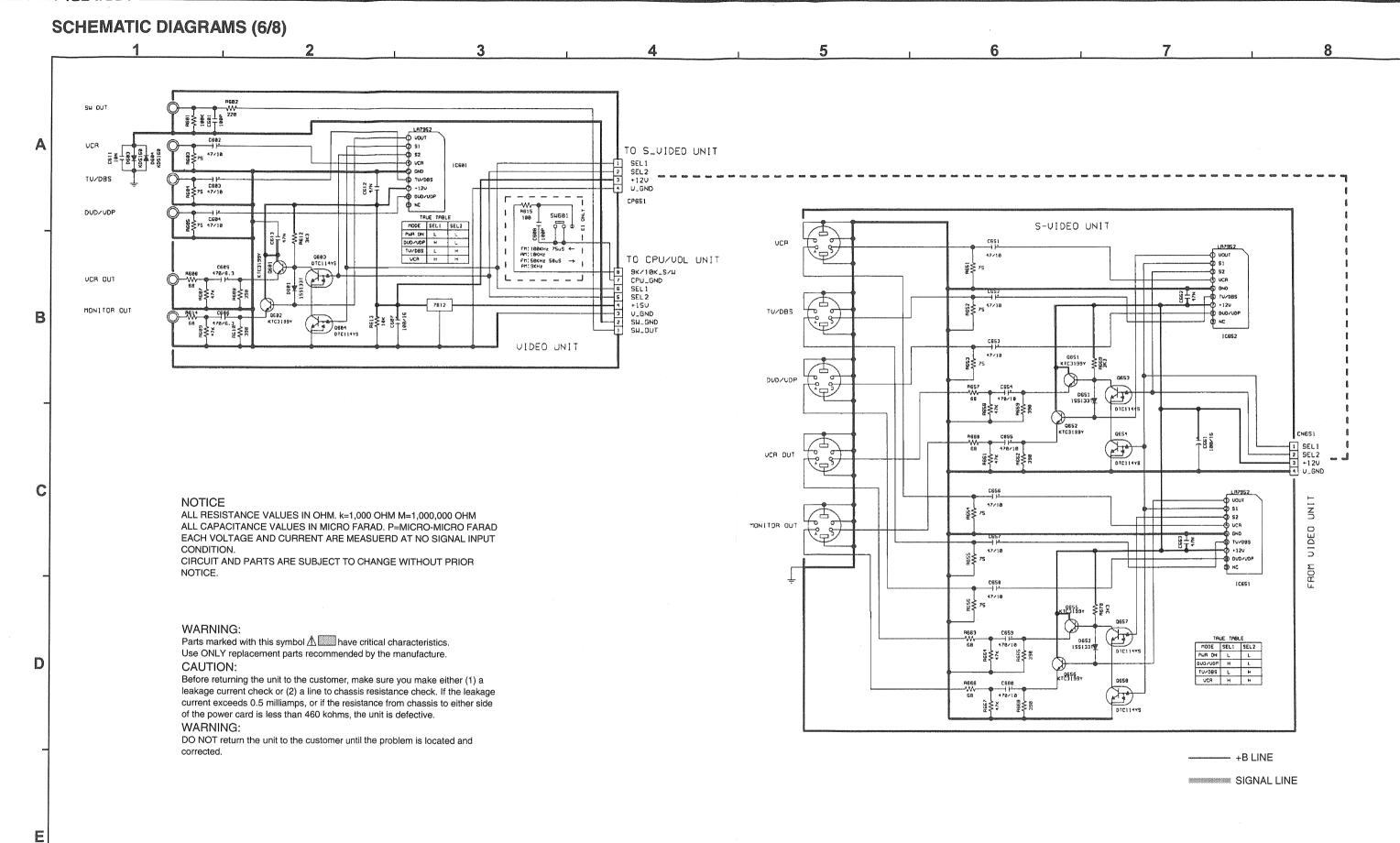










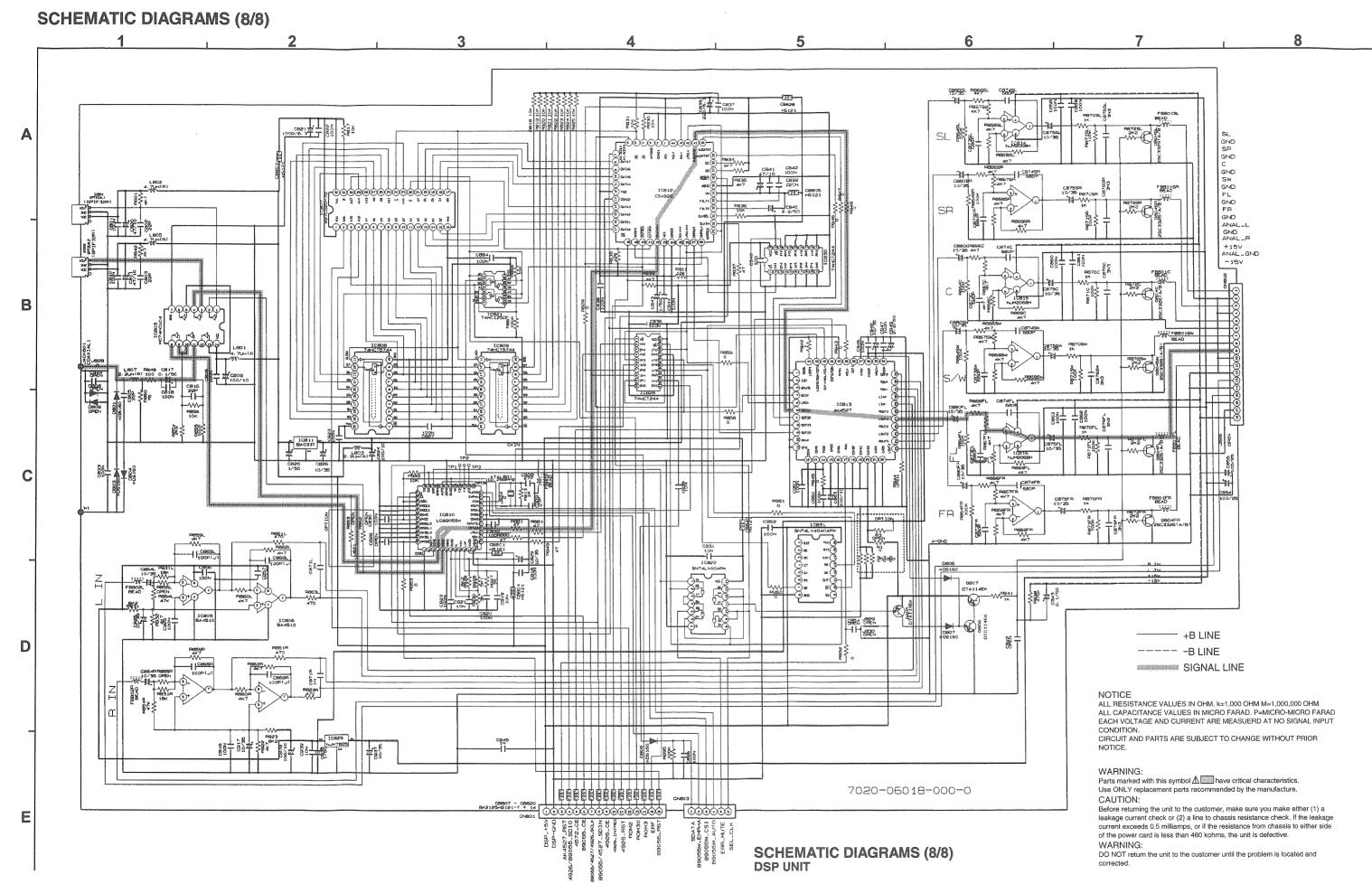


SCHEMATIC DIAGRAMS (6/8) VIDEO UNIT / S-VIDEO UNIT

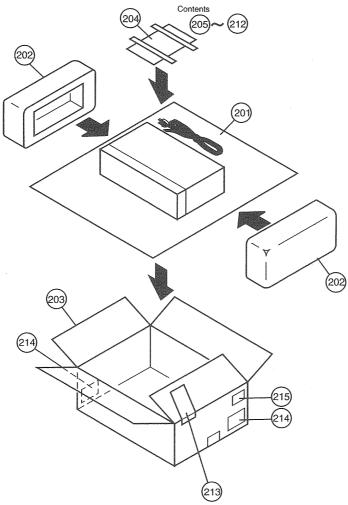


6 A 2,4 ± ± ± 5,2 ± 5,2 ± 5 C464 2P-R £ # 85 Trief! VOLT DSC DATUER SYMMETRICAL REACTANCE CLACUIT STEREO - FF - FF FF 19KHZ 19KHZ B ₹₹. UCC ON BUT ING DATUER Q403 R114EK E R472 ---₩---¤12 Θ 8458 ★ - +B LINE SIGNAL LINE NOTICE ALL RESISTANCE VALUES IN OHM. k=1,000 OHM M=1,000,000 OHM D TUNER BOARD ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-MICRO FARAD EACH VOLTAGE AND CURRENT ARE MEASUERD AT NO SIGNAL INPUT CONDITION. CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. PLL_DBTR PLL_DBTR PLL_DBTR S_LUL TU_HUTE TUNED +150 GND GND R-NO. USA(E3) EUROPE(E2) MULTI,CHINA R-NO. USA(E3) EUROPE(E2) MULTI, CHINA EUROPE (E2) MULTI,CHINA A-NO. USA(E3) 10.7MA8/MS3 J442 JUMPER JUMPER C446,C447 270P 330P 180P SFE10.7MS3 ×9 CF401/CF402 SEE 10, 7088 ×10 T406 ANTI-BIRDIE ×18 C448,C449 330P WARNING: ×2 R474 188 Parts marked with this symbol \triangle have critical characteristics. ×11 C462 470P ×19 R440,R441 120K 220K 120K ×3 B407/B408 470/1.2K 620/680 620/1.2K 39K ×12 R472 100 ×20 R442,R443 3.3K 2.2K 3.3K **#4** B471 39K CAUTION: 1 8K Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage ×13 Q409 C3880K ×21 J403,J404 JUMPER ×S UR402 50KB 100KB SØKB 6.8K ×14 R449 3.9K 22 T404,T405 LPF (MPX) #6 R428 3.3K 10K current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power card is less than 460 kohms, the unit is defective. ×7 C434 0.33/50 0.33/50 ×15 R450 **#23** R444,R445 3.3K 8.2K 1/50 WARNING: 478 ×8 R473 2.4K ×16 R438,R439 100K 150K 100K R446,R447 JUMPER DO NOT return the unit to the customer until the problem is located and

SCHEMATIC DIAGRAMS (7/8) TUNER UNIT



PACKING VIEW



PARTS LIST OF PACKING & ACCESSORIES

Note: The symbols in the column "Remarks" indicate the following destinations.

E3: U.S.A. model, Csnada model
EU: U.S.A. model (AVR-681)
E2: Europe model
E1: Asia model

E1: Asia model

promotor and the second second second second		And the second s	process and the second	(CONTRACTOR OF THE PARTY	LI. Asia model					
Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	Remarks	Q'ty	
201	960 0185 601	Set poly bag	6330210019000	1	212	963 0061 300	AC plug adapter	L10928300310A	1	
202	960 0193 101	Cushion	6230210154000	1	STATE OF THE STATE			for E1T		
203	963 0054 100	Carton case	6007210150000	1	213	515 0817 009	DEL Warranty home	for E3,EU	1	
			for E3,E2		214	_	Control label	5500014920010	2	
203	963 0054 113	Carton case	6007210150040	1	215		UPC label	5507002330010	1	
			for EU					for E3		
203	963 0054 553	Carton case	6007210150100	1	215	_	UPC label	5507002330040	1	
			for E1H		GOLULIA DE LA COLUMNIA DE LA COLUMNI			for EU		
203	963 0054 540	Carton case	6007210150030	1	215		POS label	5507002330030	1	
			for E1,E1C,E1T					for E2		
204	963 0045 106	Poly bag	6330000240000	1	*	_	Label (RDS,RADIO TEXT)	5507051670010	2	
205	963 0056 001	Instruction manual	for E3,EU	1	n in a superior			for E2		
205	963 0056 014	Instruction manual	for E2	1	*		Label (CCIB)	5500020160030	2	
205	963 0056 043	Instruction manual	for E1,E1C,E1H,E1T	1	est-consistent			for E1C		
206	963 0056 027	Instruction manual	for E1C	1	*	513 3341 000	Carton label (A)	for E1,E1C,E1H,E1T	1	
207	515 0867 004	SS. list		1	*	513 3342 009	Carton label (B)	for E1,E1C,E1H,E1T	1	
208	963 0052 306	AM loop antenna	E605010090000	1	*	513 9111 001	Color label (Gold)	for E1,E1C(Gold model),	2	
209	963 0052 209	FM antenna	E605000030010	1	5.000,000			E1H,E1T		
210	960 0193 402	Remocon RC-875	8300875000010	1	*	963 0055 918	Pad	6240210144000	2	
211	_	Battery (R6P/AA)	G670001R50010	2				for E1H		
	Servenus en solon portante de la companya de la co								anne de la company	



NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011 JAPAN Telephone: 03 (3584) 8111